

**GEOTECHNICAL AND GEO-ENVIRONMENTAL  
PHASE 2 SITE INVESTIGATION**

**LOW LAITHES VILLAGE, OLD FARM LANE  
WOMBWELL**

**FOR**

**THE HESLEY GROUP LTD**

**ISSUE 1**



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**August 2014**

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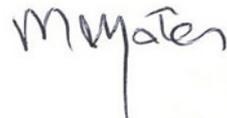
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## CONTENTS

<b>EXECUTIVE SUMMARY .....</b>	<b>6</b>
<b>1.0 INTRODUCTION.....</b>	<b>8</b>
1.1 Terms of Reference .....	8
1.2 Context .....	8
1.3 Aims and Objectives .....	8
1.4 Scope of Investigation.....	9
1.5 Limitations of Investigation.....	9
<b>2.0 THE SITE.....</b>	<b>10</b>
2.1 Description.....	10
2.2 History .....	10
2.2.1 The Site .....	10
2.2.2 The Surrounding Area.....	11
2.3 Geology .....	11
2.4 Hydrology and Hydrogeology.....	11
2.5 Groundwater Abstractions.....	11
2.6 Flooding.....	11
2.7 Discharge consents .....	11
2.8 Mining .....	12
2.9 Ground Gases .....	12
<b>3.0 OUTLINE CONCEPTUAL MODEL.....</b>	<b>13</b>
<b>4.0 GROUND INVESTIGATION .....</b>	<b>14</b>
4.1 Site Works .....	14
4.2 Laboratory Analysis .....	14
<b>5.0 GROUND CONDITIONS.....</b>	<b>15</b>
5.1 Topsoil.....	15
5.2 Hard Surfacing.....	15
5.3 Made Ground.....	15
5.4 Natural Ground .....	15

5.5	Groundwater .....	16
5.6	Evidence of Potentially Significant Contamination.....	16
<b>6.0</b>	<b>GEOTECHNICAL APPRAISAL .....</b>	<b>17</b>
6.1	General.....	17
6.2	Foundations.....	17
6.3	Ground Slabs.....	17
6.4	Superstructure Precautions.....	18
6.5	Problems Due to Past Development .....	18
6.6	Excavation Problems .....	18
6.7	Roadworks.....	18
6.8	Surface Water Drainage.....	18
6.9	Concrete .....	18
<b>7.0</b>	<b>CONTAMINATION APPRAISAL .....</b>	<b>19</b>
7.1	Objectives of the Investigation .....	19
7.2	Site Categorisation.....	19
7.3	Sampling Strategy.....	19
7.4	Chemical Assessment Values.....	20
7.5	Contamination Test Results .....	20
7.6	Significant Pollutant Linkages .....	21
<b>8.0</b>	<b>RISK ASSESSMENT .....</b>	<b>22</b>
8.1	Human Health during Construction .....	22
8.2	Human Health after Development .....	22
8.3	Plants.....	23
8.4	Ground Gas .....	23
8.5	Attack on Construction Materials.....	23
8.6	Controlled Waters .....	23
8.7	Disposal of Material .....	23
8.8	Unexpected Potential Contamination .....	24
<b>9.0</b>	<b>CONTAMINATION CONCLUSIONS AND RECOMMENDATIONS .....</b>	<b>25</b>

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## APPENDICES

- Appendix 1** Envirocheck Report from Phase 1 Report  
Coal Authority Report from Phase 1 Report
  
- Appendix 2** Exploratory Hole Location Plan 37152/001A
  
- Appendix 3** Radon Report
  
- Appendix 4** Trial Pit Logs, TP1 to TP9
  
- Appendix 5** Plasticity Results, Report Number PSL 14/3080  
Chemtest Results, Report Numbers 51858 & 51858A  
Table of Residential Assessment Values

## EXECUTIVE SUMMARY

1. This document summarises the findings of a Phase 2 geotechnical and geo-environmental site investigation carried out by Eastwood & Partners for The Hesley Group, and on the instructions of M Booth Design Ltd.
2. Previous Phase I and Phase II reports carried out by Eastwood & Partners Ltd between November 2005 and April 2006 cover this site. It is proposed to develop an additional residential unit, a storage shed, several log cabins and extend existing car park areas.
3. The site is located off Old Farm Lane, Wombwell and comprises a residential care home village with associated facility service buildings. The north area is occupied by a storage shed compound and the east by several car-parks of varying quality. The south of the site is an open field.
4. Precautions against the effects of shallow coal mining are not considered necessary.
5. Beneath hardstanding and topsoil, made ground extends to a maximum depth of around 1.5 m bgl over natural firm to stiff clay.
6. Unreinforced strip or trench fill foundations are considered to be suitable taken through any made or soft ground, founding into natural undisturbed clay beneath at a minimum depth of 900 mm below the proposed or existing ground level, whichever is lower. Allowance should be made for localised deepening of foundations through softer pockets within the natural clay.
7. Tree influence will need to be taken account of in foundation design. Heave precautions will be required where footings exceed 1500 mm depth due to existing trees.
8. Ground bearing floors will be suitable on site where the depth of made ground below the slab is less than 600 mm, is well compacted and the ground is not desiccated. Where this is not the case, a suspended floor type will be required. If footings are deepened over 1500 mm due to trees and heave precautions are required, ground floors should comprise a suspended precast concrete floor with an underlying void of 250 mm.
9. National grid and private services including electricity, drainage and BT are present within the proposed development areas. Existing services may need to be diverted.

Buried structures such as old foundations and underground tanks may also be present within formerly developed portions of the site.

10. No radon or ground gas precautions are required.
11. No significant elevated concentrations of contaminants were found within the topsoil or natural ground. The topsoil could be considered to be suitable for re-use in the development, subject to regulatory approval.
12. A 300 mm capping is required over made ground in landscaped areas.
13. A localised hydrocarbon hotspot was encountered at shallow depth in TP7 in the east of the site. The material is expected to underlie a proposed car parking area. Any volatile hydrocarbons are therefore expected to dissipate naturally. The landscaping surrounding the car park will require a 300 mm clean capping. We do not consider further remedial works will be necessary as long as this area of the site remains as a car park.
14. On the basis of the chemical test results, DS2 AC2 sulphate precautions will be required in below ground concrete.
15. The conclusions made in this report in relation to contamination are subject to agreement by the approving bodies such as the Local Authority.

## **1.0 INTRODUCTION**

### **1.1 Terms of Reference**

This report presents the findings of a Phase 2 geotechnical and geo-environmental site investigation carried out by Eastwood & Partners (Consulting Engineers) Ltd for The Hesley Group Ltd on the instructions of M Booth Design Ltd. Any other parties using the information in this report do so at their own risk and any duty of care is excluded.

### **1.2 Context**

It is proposed to redevelop localised areas of the site with a residential care home unit, a storage shed, and several log cabins and to extend and resurface the current parking areas.

Eastwood & Partners Ltd have previously undertaken a Phase 1 and Phase 2 investigation on this site for The Hesley Group in 2005 and 2006:

- 'Report on Phase 1 Environmental Assessment; Land at Low Laithes Farm, Ardsley, Barnsley', reference 28587 dated November 2005;
- 'Phase 2 Report on Low Laithes Farm, Barnsley for The Hesley Group', reference 28587 dated April 2006.

The above reports should be read in conjunction with this report, and the findings of the previous investigations have been incorporated with this document. No other site investigations are known to have been undertaken on the site in the past.

### **1.3 Aims and Objectives**

The aims and objectives of this investigation were as follows:

- Review information from previous Phase 1 and Phase 2 investigation to derive an outline conceptual model identifying potential contaminants, pathways and receptors, as well as possible linkages between these;
- Obtain additional information through intrusive measures and incorporate with previous data enabling refinement and subsequent further testing of the conceptual model;
- Detail the ground conditions and their geotechnical properties enabling outline foundation proposals to be made;

- Carry out tiered risk assessment to establish the likely risks to future receptors, involving the use of generic assessment criteria and where unacceptable risks are identified, site specific assessment criteria within a detailed quantitative risk assessment;
- Identify feasible remediation options if unacceptable risks are highlighted;
- Develop an appropriate remediation strategy where remediation is required.

#### **1.4 Scope of Investigation**

The investigation consisted of intrusive ground works and laboratory analysis. The findings were used to test the conceptual model and produce a final risk assessment.

The intrusive works comprised trial pits which were excavated to enable:

- Examination of the upper few metres of ground;
- In-situ description of soils, enabling any localised lateral and vertical changes in soil conditions to be logged;
- Assessment of any contamination identified using visual and olfactory methods; and
- Collection of soil samples for chemical testing.

#### **1.5 Limitations of Investigation**

This report is based on the assumption that the site will be developed by an extended residential care home of conventional construction, a storage shed, an extension to the existing car park area and the erection of several residential log cabins. Existing ground levels are not considered to alter significantly. If this is not the case, then the advice given in this report may not be appropriate.

Where assessments of site areas affected in particular ways are given, these are approximate. All information, comments and opinions given in this report are based on the ground conditions encountered during the site work, on the results of laboratory testing carried out as part of the investigation and information gained from a geological and historical desk study. However, there may be conditions at the site that have not been taken into account, such as unpredictable soil strata and water conditions between or below investigation points.

## **2.0 THE SITE**

The following section of the report provides a summary of the information contained within the previous Phase I report produced by Eastwood & Partners Ltd, dated November 2005. Where appropriate, the information provided has been updated to suit current site conditions and to meet current regulatory standards.

### **2.1 Description**

The site currently comprises a residential care home village situated on Old Farm Lane off Wombwell Lane. The site is centred around Ordnance Survey national grid reference SE 390 050 (438954, 404954) approximately 2 km north-east from Wombwell. Ground levels are generally flat with a gentle incline in the north of site towards the storage sheds and main car park.

Several converted farm buildings, dated pre 1900s, and new built residential dwellings with private gardens and office buildings occupy the main area of the site with facility service buildings including an open storage barn, electrical sub-station, a large shed and a workshop also present onsite.

The surface of the site being investigated for this report is covered by car parking and pavements or stone/gravel aggregate of varying quality with vegetated and grass verges. The surrounding land is predominantly agricultural.

The Exploratory Hole Location Plan, drawing number 37152/001A presents the site's current layout.

### **2.2 History**

#### **2.2.1 The Site**

The site was previously a dairy farm with associated residential dwellings constructed prior to 1900s. Significant development occurs onsite during the early and mid-20<sup>th</sup> Century with the construction of several cottages and barns from 1962 onwards. The north and eastern areas are shown to be occupied by expanding dairy herd buildings which remain present until around 2006.

No recent historical maps are available from 1993 onward however since 2006 the farm was redeveloped into a residential care home village. Original stone-built farm cottages and dwellings were converted into residential properties. New built residential and office buildings

were constructed in the main area of site. Former barns in the north and eastern areas were demolished and replaced by a storage shed compound and hardstanding currently used as a car park to give the site's current layout.

### **2.2.2 The Surrounding Area**

The surrounding land is shown to be agricultural from the earliest maps dated 1854. A railway line is shown present around 400 m to the south-west of the site running in a north-west to south-east direction. No significant land use changes are noted within the surrounding area and it remains predominantly agricultural to present date.

## **2.3 Geology**

The geological map, 275 SW, shows the north western section of the site to be underlain by undifferentiated mudstone and siltstone of the Middle Coal Measures. The south eastern section of the site is shown to be underlain by Oaks Rock sandstone.

No superficial or alluvial deposits are present across the site.

No fault lines are conjectured to cross the site.

## **2.4 Hydrology and Hydrogeology**

According to the Environment Agency webpages, the site is underlain by a Secondary A aquifer which is defined as permeable layers of rock capable of supporting water supplies at a local rather than strategic scale.

The nearest surface water feature is a reed-bed pond around 25 m to the south of the site. A small stream is located adjacent to the east corner of the site.

## **2.5 Groundwater Abstractions**

No water abstractions are present within 250 m of the site.

## **2.6 Flooding**

The site does not lie within a flood plain.

## **2.7 Discharge consents**

No active discharge consents are present within 250 m of the site.

## 2.8 Mining

Stratigraphically, the site lies at the top of the Oaks Rock sandstone group. The group is expected to be about 12 m thick. The shallowest named coal seam stratigraphically is shown to be the Swinton Pottery, expected around 5 m below the Oaks Rock. However, this seam does not appear to outcrop in the area. It is shown as an inferred coal seam and may not be present beneath the site. The next shallowest coal seam is the Newhill coal seam, around 0.9 m thick and expected around 25 m below the Oaks Rock. Workings at this depth are not expected to pose a significant risk to the site.

A Coal Mining Report was obtained during the original investigation Phase I report from the Coal Authority. The report states that the property is within the likely influencing zone of workings in 10 seams of coal at 110 to 620 m depth, last worked in 1990. Ground movement from previous mine workings is likely to have ceased by now. The site is not within the influence zone of present or proposed underground or opencast extraction methods. There are no recorded mine entries within the site or within 20 m of the site boundary.

Two damage notices or claims for alleged subsidence damage were made in 1991 and 1992. The claims were discharged for repair.

Precautions against the effects of shallow coal mining are not considered necessary.

## 2.9 Ground Gases

A site specific radon report was obtained from the British Geological Survey which indicates the site to be in an estimated probability of 1 to 3% above the action level, however, no radon protective measures are required.

Shallow coal workings are not expected to be present, therefore mine gas is not expected to pose a significant risk to the site.

Although the Envirocheck Report records the nearest landfill site to lie around 190 m from the site, this distance refers to the approximate influence of the landfill. The actual landfill site lies around 660 m west of the site. At this distance, ground gas is not expected to pose a significant risk to the site.

No ground gas precautions are considered to be required.

### 3.0 OUTLINE CONCEPTUAL MODEL

The following section aims to detail the possible sources and associated contaminants of concern, pathways and receptors which may be present at site.

The site is classed as a brownfield site due to previous use as a dairy farm. As with any brownfield site, there is the potential for elevated contaminants including metals, metalloids and PAHs to be present within made ground. When assessed against current assessment criteria, the concentrations recorded in the former Phase 2 report do not exceed their respective assessment values.

Naturally elevated levels of common contaminants may also be present although not considered to be significant.

Several tanks noted within the Phase 1 report were indicated to have been removed during the redevelopment of the site. Three tanks, including a diesel tank for home use, and two underground storage tanks expected in the north and east area where former barns remained on site are believed to have been removed during the recent construction works.

No radon or ground gas precautions are required.

Source	Pathway	Receptors
Elevated levels of metals/ metalloids and polycyclic aromatic hydrocarbons (PAHs) in any made ground present on site	Ingestion, inhalation, dermal contact Migration through ground	Site workers, future residents and visitors Plants Secondary A Aquifer Water supply pipes
Naturally elevated levels of arsenic, metals/ metalloids and PAHs in natural ground	Ingestion, inhalation, dermal contact Migration through ground	Site workers, future residents and visitors Plants Secondary A Aquifer Water supply pipes
Elevated levels of TPH in made ground around potential underground storage tanks and beneath car park in eastern area	Ingestion, inhalation, dermal contact	Site workers, future residents and visitors Secondary A Aquifer
Sulphates	Direct Contact, migration through the ground	Concrete

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## **4.0 GROUND INVESTIGATION**

### **4.1 Site Works**

Nine trial pits, referenced TP1 to TP9 were excavated on 18 June 2014 to a maximum depth of 3.60 m bgl. The approximate location of the trial pits is shown on the Exploratory Hole Location Plan, drawing number 37152/001A, presented in Appendix 2.

The ground conditions were logged in-situ and samples collected at each significant change in strata. Copies of the logs are presented in Appendix 4.

### **4.2 Laboratory Analysis**

Four samples of natural clay were dispatched to Professional Soils Laboratories Ltd for geotechnical analysis. The results, report PSL14/3080 are discussed in Section 6 and presented in Appendix 5.

Eleven soil samples comprising three topsoil, five made ground and three natural ground were dispatched for chemical analysis for a suite of contaminants. Soil samples were taken in 500g plastic tubs, 100 ml and 40 ml amber glass jars and analysed at Chemtech Laboratories using MCERT accredited methodologies where available. The chemical testing results (Chemtech Report 51858) are presented in Appendix 5 and discussed further in Section 7.

## **5.0 GROUND CONDITIONS**

### **5.1 Topsoil**

Around 0.2 to 0.55 m of topsoil was found in soft landscaped and vegetated areas. The topsoil was found to comprise dark slightly sandy clay with fragments of brick, mudstone and occasional porcelain pieces. The topsoil was found to be mixed with sawdust in the area adjacent to the existing storage shed compound.

### **5.2 Hard Surfacing**

Tarmac and concrete surfacing is present to the northern area of the site where the existing main car park and storage shed is present. Degraded hardstanding and hardcore is present to the eastern of site currently used as an extra car park area.

### **5.3 Made Ground**

In the main car park area gravel and limestone hardcore was encountered from surface within TP1 to TP3 extending to around 0.6 m bgl where a hessian cloth membrane was found. Beneath this, around 0.4 to 0.5 m thickness of made ground comprising firm to stiff clay with frequent brick, wire, timber, terracotta, coal and mudstone fragments was found extending to a maximum depth of 1.10 m bgl.

In the eastern area of the site adjacent to the storage shed compound, around 0.5 m of made ground and mixed topsoil was found. Shallow made ground is anticipated beneath the storage shed compound.

In the south eastern area of the former barns, where TP7 was excavated, mixed made ground, predominantly clay with concrete boulders and brick was found to a depth of around 1.5 m bgl.

In the southern area of the site beneath the topsoil in TP8 around 0.8 m thick of made ground comprising clay with concrete, brick, timber and wire was encountered extending to 1.0 m bgl. Site levels in the vicinity of TP8 were noted to be risen above the surrounding field.

### **5.4 Natural Ground**

Generally firm to very stiff brown mottled grey slightly sandy clay was encountered from between 0.4 to 1.7 m bgl beneath the made ground and topsoil. The natural clay extended to a maximum depth of 2.6 m bgl. Weathered mudstone was encountered below.

TP4, excavated in the north east of the site, encountered soft friable natural clay to 2.1 m depth, becoming firm clay below 2.1 m bgl. The trials pits dug within the vicinity of TP4 did not encounter this soft ground, therefore it is expected to be a localised softer pocket of natural ground.

## **5.5 Groundwater**

Perched groundwater was found in the north and east area of the site in TP5 to TP7 within the upper 0.5 m of made ground and within the topsoil. Groundwater was also found within the natural ground in TP4 at a depth of 3.20 m bgl.

No groundwater was found within other trial pits.

## **5.6 Evidence of Potentially Significant Contamination**

Localised oil staining and a slightly petroleum odour was noted within the arisings from TP3 at around 0.75 to 0.85 m depth on one pit face.

Further localised oil staining was noted within the arisings from TP7 beneath concrete boulders at a depth of 1.0 m bgl. The oil staining did not appear to be widespread and did not appear to have leached to the natural ground beneath.

No other visual or olfactory evidence of significant contamination was observed within the remaining trial pits.

## **6.0 GEOTECHNICAL APPRAISAL**

### **6.1 General**

Our investigations indicate that beneath hardstanding and topsoil, made ground extends to a maximum depth of around 1.5 m bgl over natural firm to stiff clay.

The natural clay can be anticipated to provide a safe bearing capacity of at least 125 kN/m<sup>2</sup>. Localised softer pockets should be allowed for and an allowance should be made for the localised deepening of foundations to reach ground capable of providing 125 kN/m<sup>2</sup>.

Four samples of natural clay were sent for plasticity testing. The samples produced modified plasticity indices of between 14 to 21% and 38% which corresponds to low (10 to 20%) and medium (20 to 40%) volume change potential in accordance with the NHBC standards. We therefore recommend classifying the clay deposits on site as medium volume change potential.

Precautions against the effects of shallow coal mining are not considered to be required for the proposed development.

### **6.2 Foundations**

For the proposed residential development, unreinforced strip or trench fill foundations are considered to be suitable taken through any made or soft ground, founding into natural undisturbed clay beneath at a minimum depth of 900 mm below the proposed or existing ground level, whichever is lower.

Allowance should be made for localised deepening of foundations through softer pockets within the natural clay.

Tree influence will need to be taken account of in foundation design. Heave precautions will be required where footings exceed 1500 mm depth due to existing trees.

### **6.3 Ground Slabs**

Ground bearing floors will be suitable on site where the depth of made ground below the slab is less than 600 mm, is well compacted and the ground is not desiccated. Where this is not the case, a suspended floor type will be required. If footings are deepened over 1500 mm due to trees and heave precautions are required, ground floors should comprise a suspended precast concrete floor with an underlying void of 250 mm.

## **6.4 Superstructure Precautions**

Superstructure precautions will not be required for this development due to the ground conditions.

## **6.5 Problems Due to Past Development**

National grid and private services including electricity, drainage and BT are present within the proposed development areas. Existing services may need to be diverted.

Buried structures such as old foundations and underground tanks may also be present within formerly developed portions of the site. Hard-standing where encountered within the footprint of the proposed developments will need to be broken out.

## **6.6 Excavation Problems**

Trial pits remained relatively stable within made and natural ground. It is unlikely strong bedrock will be encountered within the upper 1.5 m of ground.

Where excavations which workers will enter are over 1.2 m deep, or less where there is a risk of harm from collapse of the side of the excavation, the sides should be supported or battered back to be made safe.

## **6.7 Roadworks**

At this stage CBR values of around 2% should be attainable and the ground should be considered to be frost susceptible. An allowance should be made for a contingency for removing and infilling soft spots. In-situ testing should confirm the correct CBR value for new roads, parking areas and pavements.

## **6.8 Surface Water Drainage**

Our investigations indicate the site is underlain by natural cohesive soils and mudstone. Soakaways are not considered to be a suitable method for surface water. Surface water will need to be diverted to a piped drainage network.

## **6.9 Concrete**

As discussed in Section 8.5 it is recommended that sulphate precautions DS2-AC-2 will be appropriate where concrete is in contact with the made ground. Where no made ground is present, DS2-AC-1s sulphate precautions are considered appropriate for the natural clay.

## **7.0 CONTAMINATION APPRAISAL**

### **7.1 Objectives of the Investigation**

The purpose of this section of the report is to make a site specific assessment of the potential risks resulting from the presence of likely contaminants applicable to the site's proposed end use. The approach used will be through characterisation of the sources and redefinition of the conceptual model on the basis of the additional information about the site such as the ground conditions, hydrogeological regime and contaminant levels, to identify any significant contaminant linkages present. Where unacceptable risks are identified an options appraisal detailing feasible remediation strategies will be made.

### **7.2 Site Categorisation**

The Phase I report from 2005 considered that generally little contamination would be expected from the past farm use, although it was possible that localised spillages of fuel may have occurred. It is considered that the natural ground would not be significantly contaminated but any areas of made ground encountered would be of variable quality and may contain contaminants. The Phase II report from 2006 indicated the natural ground to contain a slightly elevated level of arsenic. Several tanks noted within the Phase 1 report were indicated to have been removed during the redevelopment of the site. The Phase II report also identified the potential for localised hotspots of TPH fuel leakages in the area of the existing main car park and eastern area where the former barn and tanks were present. No other visual or olfactory evidence of contamination was recorded from the materials encountered.

Future residents of the site, construction workers and plants are considered to be receptors. A stream is present adjacent to the east corner of the site. The underlying Secondary A below the site would also be a receptor.

### **7.3 Sampling Strategy**

On the basis of the above, samples were taken with the objective of ascertaining the levels of possible contaminants. Three samples of the topsoil, five samples of made ground and three samples of natural ground were sent for chemical testing.

The soil samples were tested for a general suite of common contaminants derived from both natural and artificial sources, which cover those likely to result in the aforementioned types of materials. All samples were tested for determinands including metals, metalloids, speciated PAHs and pH. The samples of natural ground and made ground were tested for sulphates

including total sulphur, water soluble sulphate and acid soluble sulphate. Two samples of made ground were additionally tested for fractionated hydrocarbons.

All testing was undertaken by Chemtech Laboratories in Durham and MCERTs accredited methodologies were used where available. A copy of the test results is included in Appendix 5.

#### **7.4 Chemical Assessment Values**

When assessing the chemical test results, the values are initially compared with a residential assessment value. Concentrations of particular contaminants below their assessment value are considered to be too low to be a cause for concern. Only chemicals with concentrations higher than the generic assessment values are then considered in the risk assessment section which follows. A summary table of all the assessment values used is presented in Appendix 5.

#### **7.5 Contamination Test Results**

Some preliminary risk assessment is undertaken in this section of the report where determinants can be readily discounted. The results of the chemical laboratory analysis, Chemtech report 51858, are outlined below and discussed in Section 8.0.

##### **Topsoil**

None of the tested determinants exceeded their respective assessment values.

##### **Made Ground**

None of the metals or metalloid determinants exceeded their respective assessment values.

Two samples were submitted for fractionated hydrocarbons. One of the samples, TP3 0.7 m, did not record any significantly elevated levels of aromatic or aliphatic carbon bands. The other sample, TP7 0.5 m, recorded a concentration of 342 mg/kg for the aromatic EC16-21 carbon fraction above the residential assessment value of 250 mg/kg. None of the other carbon fractions were found to be significantly elevated above their respective assessment values.

Although a number of PAH concentrations were found to be elevated, only naphthalene and benzo(a)pyrene, the two most onerous PAH compounds are assessed here. The table overleaf details the elevated PAH concentrations encountered within the made ground material.

PAH	Assessment Value (mg/kg)	Concentration (mg/kg)	
		TP1 0.50m	TP7 0.50m
Naphthalene	1.5	-	8.20
Benzo(a)pyrene	0.83	1.70	24.10

The elevated results from TP7 0.5 m is considered to be a localised hotspot and will be assessed in the next section. However, four further samples were taken from TP1 0.5 m and were tested for benzo(a)pyrene. The subsample results recorded concentrations of 13.17, 1.02, 1.33 and 1.49 mg/kg. The significantly elevated result of 13.17 mg/kg could be attributed to a piece of coal-like material which was found within the sample.

### Natural Ground

None of the chemical determinants exceeded their respective assessment values.

### Sulphates

The maximum water soluble sulphate concentration recorded from the samples of made ground is 0.49 g/l. The maximum total potential sulphate concentration recorded is 0.27%. The pH ranged between 7.1 to 8.5 and groundwater is considered to be mobile.

The maximum water soluble sulphate concentration recorded from the samples of natural ground is less than 0.085 g/l. The maximum total potential sulphate concentration recorded is 0.3%. The pH ranged between 6.9 to 8.5. The groundwater is considered to be mobile.

## 7.6 Significant Pollutant Linkages

The significant pollutant linkages identified are documented in the table below:

Source	Pathway	Receptor
PAHs within the made ground	Inhalation, ingestion and direct contact Migration	Site workers, future residents and visitors Secondary A Aquifer
Localised TPH in made ground beneath eastern car park	Ingestion, inhalation, dermal contact Migration	Site workers, future residents and visitors Secondary A Aquifer
Sulphates in the made ground	Direct contact	Below ground concrete
Petroleum hydrocarbons and PAHs in the made ground	Direct contact	Water supply pipes

## **8.0 RISK ASSESSMENT**

### **8.1 Human Health during Construction**

Elevated PAH and TPH concentrations were encountered within the made ground beneath the former barn buildings in the eastern area of the site currently occupied by a car park. Site workers should be made aware of the potential for localised hydrocarbon impacted soils.

Normal precautions, such as washing hands before eating and wearing gloves, should be adopted to mitigate any potentially unexpected risk to construction workers. Any unusual, brightly coloured or odorous material encountered during construction should be brought to the attention of the site staff and investigated.

### **8.2 Human Health after Development**

No elevated concentrations of tested determinants were encountered within the topsoil or natural ground above their respective residential assessment values. The topsoil could be considered to be suitable for re-use in the development, subject to regulatory approval.

Two samples of made ground recorded elevated PAH concentrations. A sample of the made ground from TP1, excavated within a car park in the east of the site, recorded a slightly elevated benzo(a)pyrene concentration of 1.7 mg/kg. Further sampling within this sample recorded a range of benzo(a)pyrene concentrations, with one significantly elevated concentration of 13.2 mg/kg and three other results ranging between 1 and 1.5 mg/kg. The majority of this material will be covered with buildings or hardstanding. The elevated result could be attributed to a black coal-like substance noted within the sample.

Based on the variance of the chemical test results, we would consider that this material should be capped with 300 mm of clean capping in landscaping areas.

Several other elevated PAHs were found within TP7 0.5m, along with an elevated aromatic EC 16-21 at 346 mg/kg above the recommended assessment value of 250 mg/kg. The sample collected within the same material at 1.2 m depth did not record significantly elevated PAH concentrations. This 0.5 m sample is expected to represent a hotspot. The material is expected to be localised and will underlie a proposed car parking area. Any volatile hydrocarbons are therefore expected to dissipate naturally. The landscaping surrounding the car park will however require a 300 mm clean capping. We do not consider further remedial works will be necessary as long as this area of the site remains as a car park.

If other hotspots are encountered where visible or olfactory signs of hydrocarbon contamination is found, further assessment will be required.

### **8.3 Plants**

The materials on site are not expected to pose a significant risk to plants.

### **8.4 Ground Gas**

No ground gas or radon precautions are considered to be necessary.

### **8.5 Attack on Construction Materials**

On the basis of the chemical test results, DS2 AC2 sulphate precautions will be required in below ground concrete.

### **8.6 Controlled Waters**

A stream is present adjacent to the east car park. A localised hotspot of hydrocarbon impacted ground was encountered within the made ground at shallow depth in the trial pit excavated around 30 m to the west of the stream. The elevated concentrations do not appear to have migrated into the natural ground below and due to the natural cohesive ground conditions it is considered to be contained. The risk posed to the nearby water course is considered to be negligible.

### **8.7 Disposal of Material**

Upon exposure of any made ground, it should be inspected for any localised impacted hotspots. Any hotspots or obvious signs of hydrocarbons present within the made ground should be collected and removed from site. Any material requiring removal should be taken to a suitably licensed landfill or waste treatment facility. The cost of disposal and landfill tax can be substantial. The disposal of material should therefore be seen as a last result with options such as treatment and reuse either on-site or off-site considered where possible.

The category of landfill which can accept the waste (inert, non-hazardous or hazardous) would need to be determined and will also have a significant effect on the costs. Additional testing may be required by the landfill operator and the acceptance of material is generally at their discretion.

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## 8.8 Unexpected Potential Contamination

There is the possibility that areas more significantly contaminated than identified to date may be present. Any unusual, brightly coloured, ashy or odourous material encountered during construction should be brought to the attention of the site staff and investigated.

## 9.0 CONTAMINATION CONCLUSIONS AND RECOMMENDATIONS

1. No radon or ground gas precautions are required.
2. No significant elevated concentrations of contaminants were found within the topsoil or natural ground. The topsoil could be considered to be suitable for re-use in the development, subject to regulatory approval.
3. A 300 mm capping is required over made ground in landscaped areas.
4. A localised hydrocarbon hotspot was encountered at shallow depth in TP7 in the east of the site. The material is expected to underlie a proposed car parking area. Any volatile hydrocarbons are therefore expected to dissipate naturally. The landscaping surrounding the car park will require a 300 mm clean capping. We do not consider further remedial works will be necessary as long as this area of the site remains as a car park.
5. On the basis of the chemical test results, DS2 AC2 sulphate precautions will be required in below ground concrete.
6. It is possible that localised zones of contaminated material may be found on the site in areas not covered by the investigation. If ashy, odorous, brightly coloured or apparently contaminated material is found on site, this should be submitted for chemical analysis to determine whether it is contaminated. If it is found to be contaminated, after consultation with the regulatory authorities, it should be removed from site or capped beneath hard-standing.
7. The above conclusions must be agreed with the Local Authority.

## **Appendix 1**

Envirocheck Report from Phase 1 Report  
Coal Authority Report from Phase 1 Report

## Envirocheck<sup>®</sup> Report

### Datasheet

**Report on:**

Low Laithes Farm  
Low Laithes  
Barnsley  
S71 5HB

**National Grid Reference :**

438850, 404770

**Prepared For :**

Eastwood & Partners  
St Andrews House  
23 Kingfield Road  
Sheffield  
S11 9AS

**Your Reference:**

Mr J Wood,28587

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**Summary**

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**Agency & Hydrological**

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**Waste**

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**Hazardous Substances**

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**Geological**

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**Industrial Land Use**

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**Sensitive Land Use**

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**Data Currency**

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**Data Suppliers & Copyright Statements**

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**Useful Contacts**

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**BGS Borehole Order Form**

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**Introduction**

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination. For this reason, Landmark's Site Sensitivity Datasheet places great emphasis on statutory data provided by the Environment Agency and the Scottish Environment Protection Agency; it also incorporates data from English Nature (and the Scottish and Welsh equivalents), the Environment Agency (and the Scottish equivalent) 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 legend database to 1km from a single point or 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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Data Type	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
<b>Agency &amp; Hydrological</b>				
Local Authority Pollution Prevention and Controls		1		7
Local Authority Pollution Prevention and Control Enforcements				
Contaminated Land Register Entries and Notices				
Discharge Consents		1		10
Enforcement and Prohibition Notices				
Integrated Pollution Controls				
Integrated Pollution Prevention And Control				
Local Authority Integrated Pollution Prevention And Control				1
Nearest Surface Water Feature	Yes			
Pollution Incidents to Controlled Waters		1		2
Substantiated Pollution Incident Register				
Prosecutions Relating to Authorised Processes				
Prosecutions Relating to Controlled Waters				
Water Industry Act Referrals				
Registered Radioactive Substances				
River Quality		1		1
River Quality Biology Sampling Points				
River Quality Chemistry Sampling Points				
Water Abstractions		1		1 (*1)
Groundwater Vulnerability	Yes			
Source Protection Zones				
Extreme Flooding from Rivers or Sea without Defences	Yes	Yes		
Flooding from Rivers or Sea without Defences	Yes	Yes		
Areas Benefiting from Flood Defences				
Flood Water Storage Areas	Yes	Yes		
Flood Defences				
River Flood Data (Scotland)				

Data Type	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
<b>Waste</b>				
BGS Recorded Landfill Sites				1
Integrated Pollution Control Registered Waste Sites				
Licensed Waste Management Facilities (Landfill Boundaries)				2
Licensed Waste Management Facilities (Locations)				
Local Authority Recorded Landfill Sites			1	4
Registered Landfill Sites		1	2	10
Registered Waste Transfer Sites				
Registered Waste Treatment or Disposal Sites				
<b>Hazardous Substances</b>				
Control of Major Accident Hazards Sites (COMAH)				
Explosive Sites				
Notification of Installations Handling Hazardous Substances (NIHHS)				
Planning Hazardous Substance Consents				
Planning Hazardous Substance Enforcements				
<b>Geological</b>				
BGS Boreholes		1	2	13
BGS Recorded Mineral Sites				3
BGS 1:625,000 Solid Geology	Yes			
Brine Compensation Areas				
Coal Mining Affected Areas	Yes			
Shallow Mining Hazards	Yes			
Potential for Collapsible Ground Stability Hazards				
Potential for Compressible Ground Stability Hazards	Yes			
Potential for Ground Dissolution Stability Hazards				
Potential for Landslide Ground Stability Hazards	Yes	Yes		
Potential for Running Sand Ground Stability Hazards	Yes			
Potential for Shrinking or Swelling Clay Ground Stability Hazards	Yes			
Mining Instability	Yes			
Natural and Mining Cavities				
Radon Affected Areas	Yes			
Radon Protection Measures	Yes			
<b>Industrial Land Use</b>				
Contemporary Trade Directory Entries	1	4	6	29
Fuel Station Entries		1		4

Data Type	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
<b>Sensitive Land Uses</b>				
Areas of Adopted Green Belt	1			
Areas of Unadopted Green Belt				
Areas of Outstanding Natural Beauty				
Environmentally Sensitive Areas				
Forest Parks				
Local Nature Reserves				
Marine Nature Reserves				
National Nature Reserves				
National Parks				
National Scenic Areas				
Nitrate Sensitive Areas				
Nitrate Vulnerable Zones	1			
Ramsar Sites				
Sites of Special Scientific Interest				1
Special Areas of Conservation				
Special Protection Areas				

Map ID	Details	Compass Direction	Estimated Distance From Site	Contact	NGR
	<b>Local Authority Pollution Prevention and Controls</b>				
1	Name: Perfecta Bedding Location: Wombwell Mills, Barnsley Road, Wombwell, BARNSELY, South Yorkshire, S73 8EA Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards Permit Reference: Not Given Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG6/2 Manufacture of timber and wood-based products Status: Authorisation either revoked or cancelled Positional: Manually positioned to the address or location Accuracy:	S	233	1	438700 404300
	<b>Local Authority Pollution Prevention and Controls</b>				
2	Name: Brookfield Filling Station Location: Doncaster Road, ARDSLEY, BARNSELY, South Yorkshire, S71 5EZ Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards Permit Reference: Epa/Petrol11 Dated: 6th December 1999 Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station Status: Application has been authorised and any conditions apply to the operator Positional: Automatically positioned in the proximity of the address Accuracy:	NE	654	1	439700 405240
	<b>Local Authority Pollution Prevention and Controls</b>				
3	Name: Billington Structures Location: Barnsley Road, Wombwell, BARNSELY, S73 8DS Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards Permit Reference: Epa51 Dated: 30th September 1993 Process Type: Local Authority Air Pollution Control Description: PG6/23 Coating of metal and plastic Status: Application has been authorised and any conditions apply to the operator Positional: Manually positioned to the road within the address or location Accuracy:	S	697	1	439090 404010
	<b>Local Authority Pollution Prevention and Controls</b>				
4	Name: Barnsley Mbc Crem Location: Doncaster Road, Ardsley, BARNSELY, South Yorkshire, S71 5EH Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards Permit Reference: Epa12 Dated: 2nd October 1992 Process Type: Local Authority Air Pollution Control Description: PG5/2 Crematoria Status: Application has been authorised and any conditions apply to the operator Positional: Manually positioned to the address or location Accuracy:	NW	761	1	438430 405630
	<b>Local Authority Pollution Prevention and Controls</b>				
5	Name: Redland Readymix Ltd Location: Wombwell Lane, Barnsley, South Yorkshire, S70 3NS Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards Permit Reference: Not Given Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG3/1 Blending, packing, loading and use of bulk cement Status: Authorisation either revoked or cancelled Positional: Automatically positioned to the address Accuracy:	W	989	1	437750 405030

Map ID	Details	Compass Direction	Estimated Distance From Site	Contact	NGR
	<b>Local Authority Pollution Prevention and Controls</b>				
5	Name: Marshall Clay Products Location: Stairfoot Works, Wombwell Lane, STAIRFOOT, BARNSELEY, South Yorkshire, S70 3NS Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards Permit Reference: Epa10 Dated: 2nd October 1992 Process Type: Local Authority Air Pollution Control Description: PG3/2 Manufacture of heavy clay goods and refractory goods Status: Application has been authorised and any conditions apply to the operator Positional: Automatically positioned in the proximity of the address Accuracy:	W	989	1	437750 405030
	<b>Local Authority Pollution Prevention and Controls</b>				
5	Name: Tesco Stores Limited Location: Wombwell Lane, BARNSELEY, South Yorkshire, S70 3NS Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards Permit Reference: Epa/Petrol13 Dated: 17th June 1999 Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station Status: Application has been authorised and any conditions apply to the operator Positional: Automatically positioned to the address Accuracy:	W	989	1	437750 405030
	<b>Local Authority Pollution Prevention and Controls</b>				
5	Name: Lafarge Aggregates Ltd Location: Wombwell Lane, STAIRFOOT, BARNSELEY, South Yorkshire, S70 3NS Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards Permit Reference: Ppc/B/23 Dated: 18th March 1993 Process Type: Local Authority Air Pollution Control Description: PG3/1 Blending, packing, loading and use of bulk cement Status: Application has been authorised and any conditions apply to the operator Positional: Automatically positioned to the address Accuracy:	W	989	1	437750 405030
	<b>Discharge Consents</b>				
6	Operator: David John Palmer Property Type: Undefined Or Other Location: Properties At Aldham Water Mill Aldham Farm, Barnsley Road, Wombwell, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra7726 Permit Version: 1 Effective Date: 21st May 2001 Issued Date: 21st May 2001 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Land/Soakaway Receiving Water: Land Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional: Located by supplier to within 10m Accuracy:	SW	202	2	438610 404310

Map ID	Details	Compass Direction	Estimated Distance From Site	Contact	NGR
	<b>Discharge Consents</b>				
7	Operator: British Coal Corporation, South Yorks Group Property Type: Undefined Or Other Location: Mitchells Main Pumping Station,Wombwell,Barnsley,South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 3756 Permit Version: 1 Effective Date: 14th December 1983 Issued Date: 14th December 1983 Revocation Date: 28th November 1994 Discharge Type: Trade Effluent Discharge: Freshwater Stream/River Environment: Receiving Water: Not Supplied Status: Consent revoked: Discharge ceased (Water Resources Act 1991, Schedule 10 & 6) Positional: Located by supplier to within 100m Accuracy:	S	635	2	439100 404100
	<b>Discharge Consents</b>				
8	Operator: British Coal Corporation, South Yorks Group Property Type: Undefined Or Other Location: Mitchells Main Pumping Station,Wombwell,Barnsley,South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 3756 Permit Version: 1 Effective Date: 14th December 1983 Issued Date: 14th December 1983 Revocation Date: 28th November 1994 Discharge Type: Trade Effluent Discharge: Freshwater Stream/River Environment: Receiving Water: Not Supplied Status: Consent revoked: Discharge ceased (Water Resources Act 1991, Schedule 10 & 6) Positional: Located by supplier to within 100m Accuracy:	SE	679	2	439200 404100
	<b>Discharge Consents</b>				
9	Operator: Yorkshire Water Services Ltd Property Type: Undefined Or Other Location: St Pauls Parade Sewage Pumping Stn,Ardley,Barnsley Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: C4870 Permit Version: 1 Effective Date: 18th November 1987 Issued Date: 18th November 1987 Revocation Date: 7th March 2002 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Tributary Of Dob Dyke Status: Transferred from COPA 1974 Positional: Located by supplier to within 100m Accuracy:	NW	762	2	438100 405300
	<b>Discharge Consents</b>				
10	Operator: Yorkshire Water Services Ltd Property Type: Undefined Or Other Location: Stairfoot (Wombwell Lane) Sps Wombwell Lane,Stairfoot,Barnsley,South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Ywucd1/100 Permit Version: 1 Effective Date: 12th November 1997 Issued Date: 12th November 1997 Revocation Date: 29th March 2005 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Dob Sike Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional: Located by supplier to within 10m Accuracy:	W	816	2	437830 404790

Map ID	Details	Compass Direction	Estimated Distance From Site	Contact	NGR
10	<b>Discharge Consents</b> Operator: Yorkshire Water Services Ltd Property Type: Undefined Or Other Location: Wombwell Lane Sps Wombwell Lane,Wombwell,Barnsley,South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wadc417 Permit Version: 1 Effective Date: 2nd November 1989 Issued Date: 2nd November 1989 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Dob Syke Status: Transferred from Water Act 1989 Positional: Located by supplier to within 100m Accuracy:	W	843	2	437800 404800
11	<b>Discharge Consents</b> Operator: Yorkshire Water Services Ltd Property Type: Undefined Or Other Location: St Pauls Parade Sewage Pumping Stn,Ardley,Barnsley Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: C4870 Permit Version: 2 Effective Date: 8th March 2002 Issued Date: 8th March 2002 Revocation Date: 31st March 2005 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Tributary Of Dob Dyke Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional: Located by supplier to within 10m Accuracy:	NW	879	2	438010 405380
11	<b>Discharge Consents</b> Operator: Yorkshire Water Services Ltd Property Type: Undefined Or Other Location: St Pauls Parade Sewage Pumping Stn,Ardley,Barnsley Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: C4870 Permit Version: 3 Effective Date: 1st April 2005 Issued Date: 8th March 2002 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Tributary Of Dob Dyke Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional: Located by supplier to within 10m Accuracy:	NW	879	2	438010 405380

Map ID	Details	Compass Direction	Estimated Distance From Site	Contact	NGR
	<b>Discharge Consents</b>				
12	Operator: Marshalls Brick Products Property Type: Undefined Or Other Location: Stairfoot Brickworks, Stairfoot, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 3668 Permit Version: 2 Effective Date: 11th January 1983 Issued Date: 11th January 1983 Revocation Date: 16th June 1996 Discharge Type: Trade Discharges - Site Drainage (Contaminated Surface Water, Not Waste Sites) Discharge: Freshwater Stream/River Environment: Receiving Water: Dob Syke Status: Transferred from Rivers (Prevention of Pollution) Act 1951-1961 Positional: Located by supplier to within 100m Accuracy:	W	882	2	437800 404900
	<b>Discharge Consents</b>				
12	Operator: Marshalls Brick Products Property Type: Undefined Or Other Location: Stairfoot Brickworks, Stairfoot, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 3668 Permit Version: 3 Effective Date: 17th June 1996 Issued Date: 17th June 1996 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Site Drainage (Contaminated Surface Water, Not Waste Sites) Discharge: Freshwater Stream/River Environment: Receiving Water: Dob Syke Status: Transferred from Rivers (Prevention of Pollution) Act 1951-1961 Positional: Located by supplier to within 100m Accuracy:	W	882	2	437800 404900
	<b>Discharge Consents</b>				
12	Operator: The Works Manager Property Type: Undefined Or Other Location: Stairfoot Brickworks, Stairfoot, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 3668 Permit Version: 3 Effective Date: 17th June 1996 Issued Date: 17th June 1996 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Site Drainage (Contaminated Surface Water, Not Waste Sites) Discharge: Freshwater Stream/River Environment: Receiving Water: Dob Syke Status: Transferred from Rivers (Prevention of Pollution) Act 1951-1961 Positional: Located by supplier to within 100m Accuracy:	W	882	2	437800 404900
	<b>Local Authority Integrated Pollution Prevention And Control</b>				
13	Name: Marshalls Clay Products Location: Stairfoot Works, Wombwell Lane, Barnsley, South Yorkshire, S70 3NS Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards Permit Reference: IPPC/A2/06 Dated: Not Supplied Process Type: Mineral Industries Description: Manufacture of heavy clay goods Status: Application Not Yet Authorised Positional Accuracy: Automatically positioned to the address	W	829	1	437900 404980

Map ID	Details	Compass Direction	Estimated Distance From Site	Contact	NGR
<b>Pollution Incidents to Controlled Waters</b>					
14	Property Type: Water Company Sewage: Rising Main Location: Dob Syke At,Aldham Crescent Authority: Environment Agency, North East Region Pollutant: Surcharged Sewage Note: Pollution Found; No Fish Killed Incident Date: 10th September 1996 Incident Reference: SH960431 Catchment Area: Dearne Tributaries Receiving Water: Freshwater Stream/River Cause of Incident: Unknown Severity of Incident: Category 2 - Significant Incident Positional: Located by supplier to within 100m Accuracy:	SW	228	2	438400 404400
<b>Pollution Incidents to Controlled Waters</b>					
15	Property Type: Highway/Car Park Location: Netherwood Brdg/Aldham A633 Dove(S) 03 Authority: Environment Agency, North East Region Pollutant: Oils - Petrol Note: Not Supplied Incident Date: 21st January 1994 Incident Reference: 150145 Catchment Area: Not Given Receiving Water: No Pollution Cause of Incident: Not Given Severity of Incident: Category 3 - Minor Incident Positional: Located by supplier to within 100m Accuracy:	S	570	2	439000 404100
<b>Pollution Incidents to Controlled Waters</b>					
16	Property Type: Miscellaneous Premises: Unknown Location: Markers Bridge B6273./Darfld A635 Dearne 08 Authority: Environment Agency, North East Region Pollutant: Unknown Sewage Note: Not Supplied Incident Date: 29th September 1989 Incident Reference: 103812 Catchment Area: Not Given Receiving Water: No Pollution Cause of Incident: Not Given Severity of Incident: Category 3 - Minor Incident Positional: Located by supplier to within 100m Accuracy:	W	842	2	437800 404800
<b>River Quality</b>					
	Name: River_Dove GQA Grade: River Quality C Reach: Wombwell_Stw_River_Dearn Estimated Distance of Reach (km): 6.1 Flow Rate: Flow less than 0.62 cumecs Flow Type: River Year: 2000	S	226	2	438840 404380
<b>River Quality</b>					
	Name: River_Dove GQA Grade: River Quality B Reach: Blacker_Dyke_Wombwell_St Estimated Distance of Reach (km): 1 Flow Rate: Flow less than 0.62 cumecs Flow Type: River Year: 2000	S	935	2	438900 403590

Map ID	Details	Compass Direction	Estimated Distance From Site	Contact	NGR
	<b>Water Abstractions</b>				
17	Operator: Low Laithes Dairy Farm Ltd Licence Number: 2/27/08/029 Permit Version: 100 Location: Spring No2 Authority: Environment Agency, North East Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Low Laithes,Ardsley,Barnsley Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 9th January 1990 Permit End Date: Not Supplied Positional: Located by supplier to within 10m Accuracy:	NE	101	2	439100 405100
	<b>Water Abstractions</b>				
18	Operator: Low Laithes Dairy Farm Ltd Licence Number: 2/27/08/029 Permit Version: 100 Location: Spring No1 Authority: Environment Agency, North East Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 20 Yearly Rate (m3): 7300 Details: Low Laithes,Ardsley,Barnsley Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 9th January 1990 Permit End Date: Not Supplied Positional: Located by supplier to within 100m Accuracy:	N	566	2	438900 405600
	<b>Water Abstractions</b>				
	Operator: British Coal Licence Number: 2/27/08/015 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): 1309 Yearly Rate (m3): 395502 Details: Licence Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional: Located by supplier to within 100m Accuracy:	SE	1564	2	440190 403800
	<b>Groundwater Vulnerability</b>				
	Geological Classification: Minor Aquifer (Variably permeable) - These can be fractured or potentially fractured rocks, which do not have a high primary permeability, or other formations of variable permeability including unconsolidated deposits. Although not producing large quantities of water for abstraction, they are important for local supplies and in supplying base flow to rivers  Soil Classification: Soils of Low Leaching Potential - Soils in which pollutants are unlikely to penetrate the soil layer because water movement is largely horizontal or they have large ability to attenuate diffuse pollutants. Lateral flow from these soils contribute to groundwater recharge elsewhere in the catchment  Map Sheet: Sheet 11 South Pennines Scale: 1:100,000	-	0	2	438850 404770
	<b>Drift Deposits</b>				
	Description: None	-	-	-	-

Map ID	Details	Compass Direction	Estimated Distance From Site	Contact	NGR
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Flood Plain Type: Fluvial Source: Environment Agency, Head Office Boundary Accuracy: As Supplied	S	0	2	438840 404660
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Flood Plain Type: Fluvial Source: Environment Agency, Head Office Boundary Accuracy: As Supplied	SW	243	2	438570 404270
	<b>Flooding from Rivers or Sea without Defences</b> Flood Plain Type: Fluvial Source: Environment Agency, Head Office Boundary Accuracy: As Supplied	S	0	2	438820 404670
	<b>Flooding from Rivers or Sea without Defences</b> Flood Plain Type: Fluvial Source: Environment Agency, Head Office Boundary Accuracy: As Supplied	SW	243	2	438570 404270
	<b>Areas Benefiting from Flood Defences</b> Description: None	-	-	-	-
	<b>Flood Water Storage Areas</b> Type: Flood Water Storage Areas Reference: EA1231302570101L82 Source: Environment Agency, Head Office	S	0	2	438820 404670
	<b>Flood Water Storage Areas</b> Type: Flood Water Storage Areas Reference: EA1231302570101R82 Source: Environment Agency, Head Office	SW	104	2	438700 404460
	<b>Flood Defences</b> Description: None	-	-	-	-
	<b>River Flood Data (Scotland)</b> Description: None	-	-	-	-

Map ID	Details	Compass Direction	Estimated Distance From Site	Contact	NGR
<b>BGS Recorded Landfill Sites</b>					
20	Site Name: Swaithe Tip Location: Warsborough Dale, BARNSELEY, Yorks Authority: British Geological Survey, National Geoscience Information Service Ground Water: Information not available Surface Water: Information not available Geology: N/A Positional: Positioned by the supplier Accuracy: Boundary Accuracy: Good	SW	1000	-	437690 404080
<b>Licensed Waste Management Facilities (Landfill Boundaries)</b>					
21	Name: Stairfoot Landfill Licence Number: 60588 Location: Stairfoot North Quarry, Wombwell Lane, Stairfoot, Barnsley, S Yorks Licence Holder: B D R Waste Disposal Ltd Authority: Environment Agency - North East Region, Ridings Area Site Category: Household, Commercial And Industrial Waste Landfills Maximum Input Rate: Large (Equal to or greater than 75,000 tonnes per year) Licence Status: Active Issued: 17th July 1991 Last Modified: Not Supplied Expires: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied Positional: Positioned by the supplier Accuracy: Boundary Accuracy: As Supplied	NW	846	2	437970 405220
<b>Licensed Waste Management Facilities (Landfill Boundaries)</b>					
22	Name: C E Medlam Licence Number: 60599 Location: Swaithe House Farm, Worsbrough Dale, Barnsley, S Yorks, S70 3QF Licence Holder: C E Medlam Authority: Environment Agency - North East Region, Ridings Area Site Category: Household, Commercial And Industrial Waste Landfills Maximum Input Rate: Large (Equal to or greater than 75,000 tonnes per year) Licence Status: Inactive Issued: 28th February 1979 Last Modified: Not Supplied Expires: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied Positional: Positioned by the supplier Accuracy: Boundary Accuracy: As Supplied	SW	865	2	437760 404280
<b>Local Authority Landfill Coverage</b>					
	Name: Barnsley Metropolitan Borough Council - Has supplied landfill data	-	0	1	438850 404770
<b>Local Authority Recorded Landfill Sites</b>					
23	Location: Not Supplied Reference: 93 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	W	380	1	438230 404630

Map ID	Details	Compass Direction	Estimated Distance From Site	Contact	NGR
<b>Local Authority Recorded Landfill Sites</b>					
24	Location: Not Supplied Reference: 2 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	W	579	1	438100 404830
<b>Local Authority Recorded Landfill Sites</b>					
25	Location: Not Supplied Reference: 2 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	W	584	1	438200 404980
<b>Local Authority Recorded Landfill Sites</b>					
26	Location: Not Supplied Reference: 15 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	SW	867	1	437760 404270
<b>Local Authority Recorded Landfill Sites</b>					
27	Location: Not Supplied Reference: 105 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	E	991	1	440060 405230

Map ID	Details	Compass Direction	Estimated Distance From Site	Contact	NGR
<b>Registered Landfill Sites</b>					
28	Licence Holder: William Gosney Ltd Licence Reference: WD20 B 430 Site Location: 39 Wombwell Lane (at rear of),Stairfoot,BARNSLEY, South Yorkshire,S70 3NR Licence Easting: 438200 Licence Northing: 404700 Operator Location: As Site Address Authority: Environment Agency - North East Region, Ridings Area Site Category: Landfill - Railway cutting Maximum Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrendered Dated: 1st May 1984 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Concrete Sludge Waste Construction And Demolition Wastes Excavation Waste,Soil,Subsoil Hardcore,Builders Rubble Prohibited Waste: All Forms Of Asbestos Liquids In Containers Over 4l Cap. Slurry In Containers Over 4l Cap.	W	185	2	438450 404730
<b>Registered Landfill Sites</b>					
29	Licence Holder: Yorkshire Brick Co Ltd Licence Reference: WD20 B 297 Site Location: Stairfoot,Wombwell Lane,Barnsley,South Yorkshire Licence Easting: 438000 Licence Northing: 404900 Operator Location: As Site Address Authority: Environment Agency - North East Region, Ridings Area Site Category: Landfill Maximum Input Rate: Very Large (Equal to or greater than 250,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrendered Dated: 1st July 1980 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the road within the address or location Boundary Accuracy: Not Applicable Authorised Waste: Construction And Demolition Wastes Prohibited Waste: Liquids In Containers Over 4l Cap. Slurry In Containers Over 4l Cap.	W	457	2	438250 404870

Map ID	Details	Compass Direction	Estimated Distance From Site	Contact	NGR
	<b>Registered Landfill Sites</b>				
30	Licence Holder: Barnsley M.B.C. Licence Reference: WD 2 B 9 Site Location: Stairfoot Site A,Barnsley,South Yorkshire Licence Easting: 438000 Licence Northing: 404900 Operator Location: As Site Address Authority: Environment Agency - North East Region, Ridings Area Site Category: Landfill Maximum Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrendered Dated: 1st February 1978 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Old Licence - Wastes Not To Hand	W	457	2	438250 404870
	<b>Registered Landfill Sites</b>				
31	Licence Holder: Barnsley M.B.C. Licence Reference: WD 2 B 6 Site Location: Stairfoot South Quarry,Wombwell Lane,Barnsley,South Yorkshire Licence Easting: 438000 Licence Northing: 405100 Operator Location: Cleansing Div. Smithies La.Depot,Barnsley,South Yorkshire Authority: Environment Agency - North East Region, Ridings Area Site Category: Landfill Maximum Input Rate: Very Large (Equal to or greater than 250,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Record superseded Dated: 1st February 1978 Preceded By: Not Given Licence: Superseded By: WD20 B 772 MOD 3 Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Construction And Demolition Wastes Contaminated Rubbish/Bags/Sacks Empty Used Containers Household + Commercial Waste Ind. Non-Haz. Inert, Non-Flammable Ind. Non-Haz. Potentially Combustible Industrial Effluent Treatment Sludge Metal Scrap Notifiable Wastes Old Cars Paint Waste \$ Scrap Rubber (Including Tyres) Silt And Dredgings Slag, Boiler/Flue Cleanings Tar, Pitch, Bitumen, Asphalts Used Filter Materials \$ Waste Treated Timber Prohibited Waste: Liquids In Containers Over 4l Cap. Slurry In Containers Over 4l Cap.	W	545	2	438230 405010

Map ID	Details	Compass Direction	Estimated Distance From Site	Contact	NGR
	<b>Registered Landfill Sites</b>				
32	Licence Holder: B.D.R. Waste Disposal Ltd Licence Reference: WD20 B 772 MOD 5 Site Location: Stairfoot North (2), Wombwell Lane, Stairfoot, Barnsley, South Yorkshire Licence Easting: 437900 Licence Northing: 405400 Operator Location: Templeborough House, Mill Close, Rotherham, South Yorkshire, S60 1bz Authority: Environment Agency - North East Region, Ridings Area Site Category: Landfill Maximum Input Rate: Very Large (Equal to or greater than 250,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Record superseded Dated: 1st January 1995 Preceded By: WD20 B 772 MOD 3 Licence: Superseded By: WD20 B 772 MOD 7 Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: <ul style="list-style-type: none"> <li>Animal Processing Wastes</li> <li>Asbestos - All Chemical Forms</li> <li>Brick Scrubber Waste</li> <li>Clinical - Only Grp E In Hse '92</li> <li>Domestic &amp; Com. Untreated Waste</li> <li>Food Processing Wastes</li> <li>Glass Batch Waste</li> <li>Latex, Latex/Rubber Sol'Ns/Susp'Ns</li> <li>Mineral Processing Wastes</li> <li>Non-Haz. Constr'N/Demol. Waste</li> <li>Non-Haz. Ind. Waste</li> <li>Old Cars/Vehicles/Trailers</li> <li>Paint Waste</li> <li>Polymeric Material, Products/Scrap</li> <li>Scrap Rubber (Including Tyres)</li> <li>Sewage Sludge &amp; Pail Closet Contents</li> <li>Silt And Dredgings</li> <li>Slag, Boiler/Flue Cleanings</li> <li>Spent Iron Oxide</li> <li>Tar, Pitch, Bitumen, Asphalts</li> <li>Used Filter Materials</li> <li>Vegetable Wastes For Composting</li> <li>Waste Treated Timber</li> <li>Contaminated Soil</li> </ul> Environment Agency must give specific authorisation for this waste to be accepted Waste requires prior approval Prohibited Waste: Liq./Slurry In Drums/Cont'Rs > 4 L Cap	NW	735	2	438110 405260

Map ID	Details	Compass Direction	Estimated Distance From Site	Contact	NGR
<b>Registered Landfill Sites</b>					
33	Licence Holder: B.D.R. Waste Disposal Ltd Licence Reference: WD20 B 772 MOD 3 Site Location: Stairfoot North (2), Wombwell Lane, Stairfoot, Barnsley, South Yorkshire Licence Easting: 437900 Licence Northing: 405400 Operator Location: 2 The Embankment, Sovereign Street, LEEDS, West Yorkshire, LS1 4BG Authority: Environment Agency - North East Region, Ridings Area Site Category: Landfill - with treatment Maximum Input Rate: Very Large (Equal to or greater than 250,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Record superseded Dated: 1st July 1991 Preceded By: WD 2 B20 Licence: Superseded By: WD20 B 772 MOD 5 Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Animal Processing Wastes Asbestos - All Chemical Forms Clinical Wastes Domestic & Com. Untreated Waste Food Processing Wastes/Starch Latex, Latex/Rubber Sol'Ns/Susp'Ns Mineral Processing Wastes Non-Haz. Constr'N/Demol. Waste Non-Haz. Ind. Waste Old Cars/Vehicles/Trailers Paint Waste Polymeric Material, Products/Scrap Scrap Rubber (Including Tyres) Sewage Sludge & Pail Closet Contents Silt And Dredgings Slag, Boiler/Flue Cleanings Tar, Pitch, Bitumen, Asphalts Used Filter Materials Veterinary Wastes Waste Of Vegetable Origin For Compost. Waste Treated Timber Environment Agency must give specific authorisation for this waste to be accepted Waste requires prior approval Prohibited Waste: Carcasses Suspected Of Bse Liq./Slurry In Drums/Cont'Rs > 4 L Cap	NW	735	2	438110 405260

Map ID	Details	Compass Direction	Estimated Distance From Site	Contact	NGR
	<b>Registered Landfill Sites</b>				
34	Licence Holder: B.D.R. Waste Disposal Ltd Licence Reference: WD20 B 772 MOD 7 Site Location: Stairfoot North (2), Wombwell Lane, Stairfoot, Barnsley, South Yorkshire Licence Easting: 437900 Licence Northing: 405400 Operator Location: Thorncliffe Hall, Thorncliffe Park Estate, Chapelton, SHEFFIELD, South Yorkshire, S35 2PQ  Authority: Environment Agency - North East Region, Ridings Area Site Category: Landfill Maximum Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Site at or awaiting restoration Dated: 1st April 1997 Preceded By: WD20 B 772 MOD 5 Licence: Superseded By: Not Given Licence: Positional: Manually positioned to the address or location Accuracy: Boundary Accuracy: Not Applicable Authorised Waste: Max. Waste Permitted By Licence Soil, Subsoil Prohibited Waste: Waste N.O.S.	NW	735	2	438110 405260
	<b>Registered Landfill Sites</b>				
35	Licence Holder: S T Horobin Licence Reference: WD20 B 568 Site Location: Brookfield, Doncaster Road, Ardsley, Barnsley, South Yorkshire Licence Easting: 440050 Licence Northing: 405250 Operator Location: As Site Address Authority: Environment Agency - North East Region, Ridings Area Site Category: Landfill Maximum Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrendered Dated: 1st April 1988 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional: Manually positioned to the address or location Accuracy: Boundary Accuracy: Not Applicable Authorised Waste: Builders Rubble, Hardcore, Sol. Concrete Construction And Demolition Wastes Excavation Wastes, Soil, Subsoil Road Excavations Prohibited Waste: Asbestos Of Any Type Liquid/Slurry In Drums/Cont'S > 4l Cap Paper Plasterboard Poisonous, Noxious, Polluting Wastes Putrescible Waste Wood	E	737	2	439820 405160

Map ID	Details	Compass Direction	Estimated Distance From Site	Contact	NGR
<b>Registered Landfill Sites</b>					
36	Licence Holder: Barnsley M.B.C. Licence Reference: WD 2 B20 Site Location: Stairfoot North Quarry, Barnsley, South Yorkshire Licence Easting: 437800 Licence Northing: 405300 Operator Location: As Site Address Authority: Environment Agency - North East Region, Ridings Area Site Category: Landfill Maximum Input Rate: Very Large (Equal to or greater than 250,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Record superseded Dated: 1st December 1986 Preceded By: Not Given Licence: Superseded By: WD20 B 772 MOD 3 Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Animal Processing Wastes Asbestos Empty Used Containers Food Processing Wastes/Starch House. + Com. Untreated Waste Ind. Non-Haz. Inert, Non-Flammable Ind. Non-Haz. Potentially Combustible Industrial Effluent Treatment Sludge Latex, Latex/Rubber Sol'Ns/Susp'Ns Materials Ex Road Making Medical, Surgical, Veterinary Wastes Metal Scrap Mineral Processing Wastes Non-Haz. Constr'N Ind. Waste Old Cars/Vehicles/Trailers Paint Waste \$ Polymeric Material, Products/Scrap Scrap Rubber (Including Tyres) Sewage Sludge & Pail Contents Slag, Boiler/Flue Cleanings Used Filter Materials \$ Waste Treated Timber Waste N.O.S.  Environment Agency must give specific authorisation for this waste to be accepted Waste requires prior approval Prohibited Waste: Liquids/Slurry In Cont'Rs > 4l Cap.	NW	789	2	438020 405190

Map ID	Details	Compass Direction	Estimated Distance From Site	Contact	NGR
	<b>Registered Landfill Sites</b>				
37	Licence Holder: Barnsley M.B.C. Licence Reference: WD 2 B11 Site Location: Upperwood Hall,Darfield,Barnsley,South Yorkshire Licence Easting: 440150 Licence Northing: 405150 Operator Location: Cleansing Div. Smithies La.Depot,Barnsley,South Yorkshire Authority: Environment Agency - North East Region, Ridings Area Site Category: Landfill Maximum 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/surrendered Dated: 1st October 1979 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional: Manually positioned to the address or location Accuracy: Boundary Accuracy: Not Applicable Authorised Waste: Excavated Materials Ex Highway Const'N	E	811	2	439910 405080
	<b>Registered Landfill Sites</b>				
38	Licence Holder: C E Medlam Licence Reference: WD20 B 89 MOD 4 Site Location: Pit Yard off Mitchell St.reet,Swaithe,Worsbrough,BARNSLEY,South Yorkshire,S70 2QF Licence Easting: 437600 Licence Northing: 404100 Operator Location: Swaithe House Farm,Worsbrough Dale,Swaithe,Barnsley,South Yorkshire Authority: Environment Agency - North East Region, Ridings Area Site Category: Landfill Maximum Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Site Closed Dated: 28th February 1979 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional: Approximate location provided by supplier Accuracy: Boundary Accuracy: Not Applicable Authorised Waste: Brick Rubble,Hardcore,Waste Concrete Construction And Demolition Wastes Empty Cont'Rs -Metal,PolyE,Card.Drums Excavation Waste, Soil, Subsoil Ind. Non-Haz. Inert, Non-Flammable Ind. Non-Haz. Potentially Combustible Non-Haz. Household + Commercial Waste Sawdust Ex Breeding Of Maggots Skeleton Bone, Sinews Prohibited Waste: All Forms Of Asbestos Liquids In Containers Over 4l Cap. Slurry In Containers Over 4l Cap.	SW	830	2	437820 404220

Map ID	Details	Compass Direction	Estimated Distance From Site	Contact	NGR
<b>Registered Landfill Sites</b>					
39	Licence Holder: Yorkshire Brick Co. Licence Reference: WD20 B 266 Site Location: Wombwell Lane, Stairfoot, Barnsley, South Yorkshire Licence Easting: 437700 Licence Northing: 405295 Operator Location: As Site Address Authority: Environment Agency - North East Region, Ridings Area Site Category: Landfill Maximum 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: Status: Licence lapsed/cancelled/defunct/not applicable/surrendered Dated: 1st October 1979 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Approximate location provided by supplier Boundary Accuracy: Not Applicable Authorised Waste: Hardcore And Rubble	NW	883	2	437930 405190

Map ID	Details	Compass Direction	Estimated Distance From Site	Contact	NGR
<b>Registered Landfill Sites</b>					
40	Licence Holder: Barnsley M.B.C. Licence Reference: WD 2 B21 Site Location: Stairfoot Brickworks, North Quarry Phase II, Barnsley, South Yorkshire Licence Easting: 437700 Licence Northing: 405300 Operator Location: As Site Address Authority: Environment Agency - North East Region, Ridings Area Site Category: Landfill Maximum Input Rate: Very Large (Equal to or greater than 250,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Record superseded Dated: Not Supplied Preceded By: Not Given Licence: Superseded By: WD20 B 772 MOD 3 Licence: Positional Accuracy: Approximate location provided by supplier Boundary Accuracy: Not Applicable Authorised Waste: Animal Processing Wastes Asbestos Empty Used Containers Food Processing Wastes/Starch House. + Com. Untreated Waste Ind. Non-Haz. Inert, Non-Flammable Ind. Non-Haz. Potentially Combustible Industrial Effluent Treatment Sludge Latex, Latex/Rubber Sol'Ns/Susp'Ns Materials Ex Road Making Medical, Surgical, Veterinary Wastes Metal Scrap Mineral Processing Wastes Non-Haz. Constr'N Ind. Waste Old Cars/Vehicles/Trailers Paint Waste \$ Polymeric Material, Products/Scrap Scrap Rubber (Including Tyres) Sewage Sludge & Pail Contents Slag, Boiler/Flue Cleanings Used Filter Materials \$ Waste Treated Timber Waste N.O.S. Environment Agency must give specific authorisation for this waste to be accepted Waste requires prior approval Prohibited Waste: Liquids/Slurry In Cont'Rs > 4l Cap.	NW	884	2	437930 405200

Map ID	Details	Compass Direction	Estimated Distance From Site	Contact	NGR
	<b>BGS Boreholes</b>				
41	BGS Reference: Se30se124 Drilled Length (m): 13 Borehole Name: Barnsley-Doncaster Rd Bh30	SW	165	3	438570 404350
	<b>BGS Boreholes</b>				
42	BGS Reference: Se30ne81 Drilled Length (m): 86.87 Borehole Name: Barrow Colliery No.21 Ugph	N	418	3	438820 405440
	<b>BGS Boreholes</b>				
43	BGS Reference: Se30se5 Drilled Length (m): 531.25 Borehole Name: Mitchells Main Colliery	SE	475	3	439110 404290
	<b>BGS Boreholes</b>				
44	BGS Reference: Se30ne240 Drilled Length (m): 6 Borehole Name: Barnsley-Doncaster Rd Bh1	NE	640	3	439650 405300
	<b>BGS Boreholes</b>				
45	BGS Reference: Se30ne79 Drilled Length (m): Not Supplied Borehole Name: Barrow Colliery No.22 Ugph	NW	665	3	438320 405440
	<b>BGS Boreholes</b>				
45	BGS Reference: Se30ne80 Drilled Length (m): Not Supplied Borehole Name: Barrow Coll Fenton De-Watering Ugph U/B Position A	NW	666	3	438320 405440
	<b>BGS Boreholes</b>				
46	BGS Reference: Se30se21 Drilled Length (m): 30.18 Borehole Name: Barrow Colliery Ugph 3	SW	674	3	438240 403940
	<b>BGS Boreholes</b>				
47	BGS Reference: Se30ne31 Drilled Length (m): 28.48 Borehole Name: Darfield Main Colliery No.4 Ugph	N	771	3	439230 405770
	<b>BGS Boreholes</b>				
48	BGS Reference: Se30ne16 Drilled Length (m): 32.94 Borehole Name: Darfield Main Colliery No.5 Ugph	NE	861	3	439750 405530
	<b>BGS Boreholes</b>				
49	BGS Reference: Se30ne20 Drilled Length (m): 57.33 Borehole Name: Darfield Main Colliery No.7 Ugph	N	870	3	438970 405910
	<b>BGS Boreholes</b>				
50	BGS Reference: Se30se38 Drilled Length (m): Not Supplied Borehole Name: Pillar Sections Silkstone Seam X10'S Maingate	SW	881	3	438380 403660
	<b>BGS Boreholes</b>				
51	BGS Reference: Se30se125 Drilled Length (m): 11 Borehole Name: Barnsley-Doncaster Rd Bh31	SE	886	3	439360 403950
	<b>BGS Boreholes</b>				
52	BGS Reference: Se30ne17 Drilled Length (m): 33.83 Borehole Name: Darfield Main Colliery No.6 Ugph	NE	978	3	439970 405420
	<b>BGS Boreholes</b>				
53	BGS Reference: Se30ne84 Drilled Length (m): 58.52 Borehole Name: Barrow Colliery No.25 Ugph	NW	991	3	438230 405780
	<b>BGS Boreholes</b>				
53	BGS Reference: Se30ne85 Drilled Length (m): 82.19 Borehole Name: Barrow Colliery No.26 Ugph (Up)	NW	991	3	438230 405780

Map ID	Details	Compass Direction	Estimated Distance From Site	Contact	NGR
<b>BGS Boreholes</b>					
53	BGS Reference: Se30ne95 Drilled Length (m): Not Supplied Borehole Name: T07'S Main Gate At 100m Inbye	NW	997	3	438260 405810
<b>BGS Recorded Mineral Sites</b>					
54	Site Name: Mitchell Main Colliery Location: Wombwell, Barnsley, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 13317 Type: Underground Status: Ceased Operator: Ncb South Yorkshire Area Operator Location: Golden Smithies Lane, Wath-Upon-Deerne, Rotherham, South Yorkshire, S63 7ew Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional: Located by supplier to within 10m Accuracy:	SE	563	3	439170 404220
<b>BGS Recorded Mineral Sites</b>					
55	Site Name: Stairfoot No 1 Location: Wombwell Lane, Stairfoot, Barnsley, S70 3ns Source: British Geological Survey, National Geoscience Information Service Reference: 5845 Type: Opencast Status: Active Operator: Hanson Brick Operator Location: Stewartby, Bedfordshire, Mk43 9lz Periodic Type: Carboniferous Geology: Pennine Upper Coal Measures Formation Commodity: Common Clay and Shale Positional: Located by supplier to within 10m Accuracy:	W	760	3	437950 404920
<b>BGS Recorded Mineral Sites</b>					
56	Site Name: Stairfoot No 2 Location: Wombwell Lane, Stairfoot, Barnsley, S70 3ns Source: British Geological Survey, National Geoscience Information Service Reference: 214 Type: Opencast Status: Active Operator: Hanson Brick Operator Location: Stewartby, Bedfordshire, Mk43 9lz Periodic Type: Carboniferous Geology: Pennine Upper Coal Measures Formation Commodity: Common Clay and Shale Positional: Located by supplier to within 100m Accuracy:	NW	818	3	438000 405200
<b>BGS 1:625,000 Solid Geology</b>					
	Description: Lower Westphalian (mainly Productive Coal Measures)	-	0	3	438850 404770
<b>Coal Mining Affected Areas</b>					
	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.	-	0	4	438850 404770
<b>Shallow Mining Hazards</b>					
	Risk: Low-Moderate Source: British Geological Survey, National Geoscience Information Service	-	0	3	438850 404770
<b>Shallow Mining Hazards</b>					
	Risk: Low-Moderate Source: British Geological Survey, National Geoscience Information Service	SW	0	3	438700 404550
<b>Potential for Collapsible Ground Stability Hazards</b>					
	Description: No Hazard	-	-	-	-
<b>Potential for Compressible Ground Stability Hazards</b>					
	Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	SE	0	3	438870 404730

Map ID	Details	Compass Direction	Estimated Distance From Site	Contact	NGR
	<b>Potential for Compressible Ground Stability Hazards</b>				
	Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	-	0	3	438850 404770
	<b>Potential for Ground Dissolution Stability Hazards</b>				
	Description: No Hazard	-	-	-	-
	<b>Potential for Landslide Ground Stability Hazards</b>				
	Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	-	0	3	438850 404770
	<b>Potential for Landslide Ground Stability Hazards</b>				
	Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	NE	0	3	438980 404980
	<b>Potential for Landslide Ground Stability Hazards</b>				
	Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	NW	0	3	438780 404880
	<b>Potential for Landslide Ground Stability Hazards</b>				
	Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	SW	1	3	438700 404550
	<b>Potential for Landslide Ground Stability Hazards</b>				
	Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	NE	17	3	439050 405030
	<b>Potential for Landslide Ground Stability Hazards</b>				
	Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	SW	39	3	438700 404500
	<b>Potential for Landslide Ground Stability Hazards</b>				
	Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	S	55	3	438750 404530
	<b>Potential for Landslide Ground Stability Hazards</b>				
	Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	S	71	3	438750 404500
	<b>Potential for Landslide Ground Stability Hazards</b>				
	Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	NE	74	3	439050 405100
	<b>Potential for Landslide Ground Stability Hazards</b>				
	Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	S	90	3	438750 404480
	<b>Potential for Landslide Ground Stability Hazards</b>				
	Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	S	109	3	438780 404500
	<b>Potential for Landslide Ground Stability Hazards</b>				
	Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	S	142	3	438780 404450
	<b>Potential for Landslide Ground Stability Hazards</b>				
	Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	E	143	3	439100 404750
	<b>Potential for Landslide Ground Stability Hazards</b>				
	Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	S	164	3	438830 404480
	<b>Potential for Landslide Ground Stability Hazards</b>				
	Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	S	177	3	438830 404430
	<b>Potential for Landslide Ground Stability Hazards</b>				
	Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	S	198	3	438850 404450

Map ID	Details	Compass Direction	Estimated Distance From Site	Contact	NGR
	<b>Potential for Landslide Ground Stability Hazards</b>				
	Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	E	225	3	439180 404700
	<b>Potential for Landslide Ground Stability Hazards</b>				
	Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	SW	237	3	438600 404280
	<b>Potential for Running Sand Ground Stability Hazards</b>				
	Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	-	0	3	438850 404770
	<b>Potential for Running Sand Ground Stability Hazards</b>				
	Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	SE	0	3	438870 404730
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b>				
	Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	SE	0	3	438900 404740
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b>				
	Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	-	0	3	438850 404770
	<b>Mining Instability</b>				
	Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	-	0	-	438850 404770
	<b>Radon Affected Areas</b>				
	Description: Less than 1% of homes are above the Action Level Source: Health Protection Agency	-	0	5	438850 404770
	<b>Radon Affected Areas</b>				
	Description: Between 1% and 3% of homes are above the Action Level Source: Health Protection Agency	N	0	5	438850 405000
	<b>Radon Affected Areas</b>				
	Description: Less than 1% of homes are above the Action Level Source: Health Protection Agency	E	0	5	439000 404770
	<b>Radon Affected Areas</b>				
	Description: Between 1% and 3% of homes are above the Action Level Source: Health Protection Agency	NE	0	5	439000 405000
	<b>Radon Protection Measures</b>				
	Type: Basic radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	-	0	3	438850 404770

Map ID	Details	Compass Direction	Estimated Distance From Site	Contact	NGR
<b>Contemporary Trade Directory Entries</b>					
57	Name: Low Laithes Dairy Farm Ltd Location: Low Laithes, Barnsley, South Yorkshire, S71 5HB Classification: Dairies Status: Inactive Positional: Automatically positioned to the address Accuracy:	NE	0	-	438940 404880
<b>Contemporary Trade Directory Entries</b>					
58	Name: Glengarry Damp Proofing & Plastering Location: 155, Wombwell Lane, Wombwell, Barnsley, South Yorkshire, S73 8EQ Classification: Damp & Dry Rot Control Status: Active Positional: Automatically positioned to the address Accuracy:	SW	98	-	438510 404580
<b>Contemporary Trade Directory Entries</b>					
59	Name: Samson Specialist Vehicle Technicians Location: Eldhambridge, Wombwell La, Wombwell, Barnsley, South Yorkshire, S73 8EP Classification: Garage Services Status: Inactive Positional: Manually positioned to the address or location Accuracy:	SW	129	-	438660 404390
<b>Contemporary Trade Directory Entries</b>					
60	Name: Crescent Rodent Control Ltd - Barnsley Location: 16, Aldham Crescent, Wombwell, Barnsley, South Yorkshire, S73 8ES Classification: Pest & Vermin Control Status: Active Positional: Automatically positioned to the address Accuracy:	SW	164	-	438430 404510
<b>Contemporary Trade Directory Entries</b>					
61	Name: K O Z Commercial Vehicles Ltd Location: Barnsley Rd, Wombwell, Barnsley, South Yorkshire, S73 8EG Classification: Garage Services Status: Active Positional: Manually positioned to the road within the address or location Accuracy:	S	216	-	438730 404340
<b>Contemporary Trade Directory Entries</b>					
62	Name: Advance Auto Services Location: Wombwell La, Wombwell, Barnsley, South Yorkshire, S73 8EL Classification: Car Dealers - Used Status: Inactive Positional: Manually positioned to the road within the address or location Accuracy:	W	343	-	438270 404620
<b>Contemporary Trade Directory Entries</b>					
63	Name: Brian Cook Location: 5, Albany Close, Wombwell, Barnsley, South Yorkshire, S73 8ER Classification: Domestic Appliances - Servicing, Repairs & Parts Status: Inactive Positional: Automatically positioned to the address Accuracy:	W	352	-	438290 404690
<b>Contemporary Trade Directory Entries</b>					
64	Name: Perfecta Beds Location: Barnsley Road, Wombwell, BARNSELEY, South Yorkshire, S73 8EA Classification: Bed & Mattress Manufacturers Status: Active Positional: Automatically positioned to the address Accuracy:	S	439	-	438880 404170
<b>Contemporary Trade Directory Entries</b>					
65	Name: Superior Finish Location: Unit 10 Mitchell Rd, Wombwell, Barnsley, South Yorkshire, S73 8HA Classification: Car Body Repairs Status: Active Positional: Manually positioned to the road within the address or location Accuracy:	S	484	-	439000 404220

Map ID	Details	Compass Direction	Estimated Distance From Site	Contact	NGR
<b>Contemporary Trade Directory Entries</b>					
65	Name: Lightmain Co Ltd Location: Unit 17 Aldham Indust Est,Mitchell Rd,Wombwell,Barnsley,South Yorkshire,S73 8HA Classification: Engineers - General Status: Inactive Positional: Manually positioned to the road within the address or location Accuracy:	S	486	-	439000 404210
<b>Contemporary Trade Directory Entries</b>					
65	Name: Plant Glazing Services Location: Unit 19,Aldham Ind Est,Mitchell Rd,Wombwell,Barnsley,South Yorkshire,S73 8HA Classification: Plant & Machinery Repairs Status: Active Positional: Manually positioned to the road within the address or location Accuracy:	S	490	-	439000 404210
<b>Contemporary Trade Directory Entries</b>					
65	Name: A1 Pharmaceuticals Location: Unit 6-7,Aldham Ind Est,Mitchell Rd,Wombwell,Barnsley,South Yorkshire,S73 8HA Classification: Chemists' & Pharmacists' Suppliers & Wholesalers Status: Inactive Positional: Manually positioned to the road within the address or location Accuracy:	S	519	-	439030 404190
<b>Contemporary Trade Directory Entries</b>					
65	Name: M & M Pinder & Sons Location: Unit 22 Aldham Indust Est,Barnsley,South Yorkshire,S70 3HA Classification: Tool Design, Manufacturers & Makers Status: Inactive Positional: Manually positioned within the geographical locality Accuracy:	S	530	-	439050 404190
<b>Contemporary Trade Directory Entries</b>					
65	Name: Ram Master Location: Unit 24,Aldham Ind Est,Mitchell Rd,Wombwell,Barnsley,South Yorkshire,S73 8HA Classification: Car Body Repairs Status: Inactive Positional: Manually positioned to the road within the address or location Accuracy:	S	541	-	439040 404180
<b>Contemporary Trade Directory Entries</b>					
65	Name: Fresco Windows Location: Unit 5,Aldham Ind Est,Mitchell Rd,Wombwell,Barnsley,South Yorkshire,S73 8HA Classification: Window Frame Manufacturers Status: Inactive Positional: Manually positioned to the road within the address or location Accuracy:	S	554	-	439050 404170
<b>Contemporary Trade Directory Entries</b>					
66	Name: Selclene Location: 113,St. Pauls Parade,Barnsley,South Yorkshire,S71 5BU Classification: Cleaning Services - Domestic Status: Active Positional: Automatically positioned to the address Accuracy:	NW	502	-	438340 405210
<b>Contemporary Trade Directory Entries</b>					
67	Name: Onyx Conversions Location: Mitchell Main Ind Est,Mitchell Rd,Wombwell,Barnsley,South Yorkshire,S73 8HA Classification: Commercial Vehicle Bodybuilders & Repairers Status: Active Positional: Manually positioned to the road within the address or location Accuracy:	S	571	-	439060 404150
<b>Contemporary Trade Directory Entries</b>					
68	Name: Wombell Lane Car Exchange Location: 35-37,Wombwell Lane,Barnsley,South Yorkshire,S70 3NR Classification: Car Dealers - Used Status: Inactive Positional: Automatically positioned to the address Accuracy:	W	653	-	438010 404810

Map ID	Details	Compass Direction	Estimated Distance From Site	Contact	NGR
<b>Contemporary Trade Directory Entries</b>					
68	Name: Yorkshire Gas Showrooms Location: 35-37, Wombwell Lane, Barnsley, South Yorkshire, S70 3NR Classification: Gas Appliances - Sales & Service Status: Inactive Positional: Automatically positioned to the address Accuracy:	W	653	-	438010 404810
<b>Contemporary Trade Directory Entries</b>					
69	Name: Brookfield Filling Station Location: Doncaster Road, Barnsley, South Yorkshire, S71 5EZ Classification: Petrol Filling Stations Status: Inactive Positional: Automatically positioned in the proximity of the address Accuracy:	NE	654	-	439700 405240
<b>Contemporary Trade Directory Entries</b>					
70	Name: Thornhill Silicones Ltd Location: Unit 1, Mitchells Enterprise Centre, Bradberry Balk Lane, Wombwell, BARNSELY, South Yorkshire, S73 8HR Classification: Rubber & Plastic Products - Manufacturers Status: Active Positional: Automatically positioned to the address Accuracy:	SE	742	-	439320 404090
<b>Contemporary Trade Directory Entries</b>					
70	Name: Rail Access Platforms Location: Unit 1, Mitchells Enterprise Centre, Bradberry Balk Lane, Wombwell, Barnsley, South Yorkshire, S73 8HR Classification: Railway Equipment Manufacturers Status: Active Positional: Automatically positioned to the address Accuracy:	SE	742	-	439320 404090
<b>Contemporary Trade Directory Entries</b>					
70	Name: Wilson'S Patterns & Castings Ltd Location: Unit 2, Mitchells Enterprise Centre, Bradberry Balk La, Wombwell, Barnsley, South Yorkshire, S73 8HR Classification: Engineers - General Status: Active Positional: Manually positioned to the address or location Accuracy:	SE	752	-	439320 404080
<b>Contemporary Trade Directory Entries</b>					
71	Name: Bereavement Services Location: Crematorium Lodge, Doncaster Road, Barnsley, South Yorkshire, S71 5EH Classification: Cemeteries & Crematoria Status: Active Positional: Automatically positioned to the address Accuracy:	NW	758	-	438420 405630
<b>Contemporary Trade Directory Entries</b>					
72	Name: Fresco Windows Location: Unit 5, Aldham Industrial Estate, Mitchell Road, Wombwell, Barnsley, South Yorkshire, S73 8HA Classification: Window Frame Manufacturers Status: Inactive Positional: Automatically positioned to the address Accuracy:	SE	774	-	439340 404070
<b>Contemporary Trade Directory Entries</b>					
72	Name: Centrivac Services Location: Unit 9, Aldham Industrial Estate, Mitchell Road, Wombwell, Barnsley, South Yorkshire, S73 8HA Classification: Industrial Engineers Status: Active Positional: Automatically positioned to the address Accuracy:	SE	800	-	439350 404050
<b>Contemporary Trade Directory Entries</b>					
72	Name: A & E (Hardware) Services Location: Unit 15-16, Aldham Ind Est, Mitchell Rd, Wombwell, Barnsley, South Yorkshire, S73 8HA Classification: Hardware Status: Active Positional: Manually positioned within the geographical locality Accuracy:	SE	810	-	439350 404030

Map ID	Details	Compass Direction	Estimated Distance From Site	Contact	NGR
<b>Contemporary Trade Directory Entries</b>					
72	Name: Acorn Location: Unit 11, Mitchells Enterprise Centre, Bradberry Balk La, Wombwell, Barnsley, South Yorkshire, S73 8HR Classification: Brewers Status: Active Positional: Manually positioned to the address or location Accuracy:	SE	822	-	439370 404030
<b>Contemporary Trade Directory Entries</b>					
72	Name: Wolseley Uk Location: Unit 12, Aldham Industrial Estate, Mitchell Road, Wombwell, Barnsley, South Yorkshire, S73 8HA Classification: Builders' Merchants Status: Active Positional: Automatically positioned to the address Accuracy:	SE	831	-	439380 404020
<b>Contemporary Trade Directory Entries</b>					
73	Name: Sandygate Motors Location: 245, Barnsley Road, Wombwell, Barnsley, South Yorkshire, S73 8DT Classification: Car Dealers Status: Inactive Positional: Automatically positioned in the proximity of the address Accuracy:	S	817	-	439150 403900
<b>Contemporary Trade Directory Entries</b>					
74	Name: Acorn Engraving Location: 8, Winchester Way, Barnsley, South Yorkshire, S71 5DE Classification: Glass Engravers & Decorators Status: Inactive Positional: Automatically positioned to the address Accuracy:	NW	896	-	438050 405480
<b>Contemporary Trade Directory Entries</b>					
75	Name: Barnsley Fireplace Centre Location: 197-199, Barnsley Road, Wombwell, Barnsley, South Yorkshire, S73 8DR Classification: Fireplaces & Mantelpieces Status: Inactive Positional: Automatically positioned in the proximity of the address Accuracy:	S	927	-	439190 403790
<b>Contemporary Trade Directory Entries</b>					
75	Name: Blazes Fireplace Centres Location: 197, Barnsley Road, Wombwell, Barnsley, South Yorkshire, S73 8DR Classification: Fireplaces & Mantelpieces Status: Inactive Positional: Automatically positioned to the address Accuracy:	S	959	-	439200 403760
<b>Contemporary Trade Directory Entries</b>					
76	Name: Marshall Clay Products Ltd Location: Stairfoot Works, Wombwell Lane, Barnsley, South Yorkshire, S70 3NS Classification: Brick Manufacturers Status: Inactive Positional: Automatically positioned in the proximity of the address Accuracy:	W	989	-	437750 405030
<b>Contemporary Trade Directory Entries</b>					
76	Name: Lafarge Aggregates Ltd Location: Barnsley Retail Park, Wombwell Lane, Barnsley, South Yorkshire, S70 3NS Classification: Sand, Gravel & Other Aggregates Status: Inactive Positional: Automatically positioned in the proximity of the address Accuracy:	W	989	-	437750 405030
<b>Contemporary Trade Directory Entries</b>					
76	Name: Lafarge Aggregates Location: Wombwell Lane, Barnsley, South Yorkshire, S70 3NS Classification: Concrete & Mortar Ready Mixed Status: Inactive Positional: Automatically positioned to the address Accuracy:	W	989	-	437750 405030

Map ID	Details	Compass Direction	Estimated Distance From Site	Contact	NGR
<b>Contemporary Trade Directory Entries</b>					
76	Name: Tesco Stores Ltd Location: Wombwell Lane,Barnsley,South Yorkshire,S70 3NS Classification: Petrol Filling Stations Status: Active Positional: Automatically positioned to the address Accuracy:	W	989	-	437750 405030
<b>Contemporary Trade Directory Entries</b>					
76	Name: Lafarge Aggregates Ltd Location: Wombwell Lane,BARNSLEY,South Yorkshire,S70 3NS Classification: Concrete & Mortar Ready Mixed Status: Active Positional: Automatically positioned to the address Accuracy:	W	989	-	437750 405030
<b>Contemporary Trade Directory Entries</b>					
76	Name: Lafarge Aggregates Location: Wombwell Lane,BARNSLEY,South Yorkshire,S70 3NS Classification: Concrete & Mortar Ready Mixed Status: Active Positional: Automatically positioned to the address Accuracy:	W	989	-	437750 405030
<b>Contemporary Trade Directory Entries</b>					
77	Name: Economy Motor Co Location: Doncaster Road,Barnsley,South Yorkshire,S71 5EF Classification: Car Dealers Status: Inactive Positional: Automatically positioned to the address Accuracy:	NW	998	-	438090 405680
<b>Fuel Station Entries</b>					
78	Name: Auto Trade Centre Location: Wombwell Lane,Wombwell,BARNSLEY,South Yorkshire,S73 8EP Brand: OUT OF INDUSTRY Premises Type: Petrol Station Status: Out of Industry Positional: Automatically positioned to the address Accuracy:	SW	24	-	438630 404500
<b>Fuel Station Entries</b>					
79	Name: Barnsley Service Station Location: Doncaster Road,Measborough Dike,BARNSLEY,South Yorkshire,S71 5EZ Brand: Obsolete Premises Type: Not Applicable Status: Obsolete Positional: Automatically positioned to the address Accuracy:	NE	681	-	439730 405240
<b>Fuel Station Entries</b>					
79	Name: Brookfield Filling Station Location: Doncaster Road,BARNSLEY,South Yorkshire,S71 5EZ Brand: Unbranded Premises Type: Petrol Station Status: Open Positional: Automatically positioned in the proximity of the address Accuracy:	NE	681	-	439730 405240
<b>Fuel Station Entries</b>					
80	Name: Dixon Location: Barnsley Road,Wombwell,BARNSLEY,South Yorkshire,S73 8DU Brand: Out Of Industry Premises Type: Petrol Station Status: Out of Industry Positional: Automatically positioned to the address Accuracy:	S	718	-	439110 404000
<b>Fuel Station Entries</b>					
81	Name: Tesco Barnsley Location: Wombwell Lane,Stairfoot,BARNSLEY,South Yorkshire,S70 3NS Brand: TESCO Premises Type: Hypermarket Status: Open Positional: Automatically positioned to the address Accuracy:	W	989	-	437750 405030

Map ID	Details	Compass Direction	Estimated Distance From Site	Contact	NGR
	<b>Areas of Adopted Green Belt</b>				
	Authority: Barnsley Metropolitan Borough Council, Planning Department	-	0	6	438850
	Plan Name: Barnsley Unitary Development Plan				404770
	Status: Adopted				
	Plan Date: 31st December 2000				
	<b>Nitrate Vulnerable Zones</b>				
	Name: Not Supplied	-	0	7	438850
	Description: Surface Water				404770
	Source: Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)				
	<b>Sites of Special Scientific Interest</b>				
	Name: Stairfoot Brickworks	W	532	8	438190
	Multiple Area: N				404860
	Area (m2): 1182.5				
	Source: English Nature				
	Reference: 2000298				
	Designation Details: Geological Conservation Review				
	Designation Date: 6th October 1997				
	Date Type: Notified				

Data Type	Version	Update Cycle
<b>Agency &amp; Hydrological</b>		
<b>Local Authority Pollution Prevention and Controls</b> Barnsley Metropolitan Borough Council Environmental Health and Trading Standards	September-2004	Annual Rolling Update
<b>Local Authority Pollution Prevention and Control Enforcements</b> Barnsley Metropolitan Borough Council Environmental Health and Trading Standards	October-2005	Annual Rolling Update
<b>Discharge Consents</b> Environment Agency North East Region	July-2005	Quarterly
<b>Integrated Pollution Controls</b> Environment Agency North East Region	July-2005	Quarterly
<b>Integrated Pollution Prevention And Control</b> Environment Agency North East Region	July-2005	Quarterly
<b>Local Authority Integrated Pollution Prevention And Control</b> Barnsley Metropolitan Borough Council Environmental Health and Trading Standards	October-2005	Annual Rolling Update
<b>Pollution Incidents to Controlled Waters</b> Environment Agency North East Region	December-1998	Not Applicable
<b>Substantiated Pollution Incident Register</b> Environment Agency - North East Region Ridings Area	October-2005	Quarterly
<b>Water Industry Act Referrals</b> Environment Agency North East Region	July-2005	Quarterly
<b>Registered Radioactive Substances</b> Environment Agency North East Region	July-2005	Quarterly
<b>River Quality</b> Environment Agency Head Office	November-2001	Not Applicable
<b>River Quality Biology Sampling Points</b> Environment Agency Head Office	October-2004	Annually
<b>River Quality Chemistry Sampling Points</b> Environment Agency Head Office	June-2005	Annually
<b>Water Abstractions</b> Environment Agency North East Region	July-2005	Quarterly
<b>Groundwater Vulnerability</b> Environment Agency Head Office	January-1999	Not Applicable
<b>Drift Deposits</b> Environment Agency Head Office	January-1999	Not Applicable
<b>Source Protection Zones</b> Environment Agency Head Office	April-2005	Variable

Data Type	Version	Update Cycle
<b>Agency &amp; Hydrological</b>		
<b>Extreme Flooding from Rivers or Sea without Defences</b> Environment Agency Head Office	June-2005	Quarterly
<b>Flooding from Rivers or Sea without Defences</b> Environment Agency Head Office	June-2005	Quarterly
<b>Areas Benefiting from Flood Defences</b> Environment Agency Head Office	June-2005	Quarterly
<b>Flood Water Storage Areas</b> Environment Agency Head Office	June-2005	Quarterly
<b>Flood Defences</b> Environment Agency Head Office	June-2005	Quarterly
<b>River Flood Data (Scotland)</b> Centre for Ecology and Hydrology	September-1999	Not Applicable

Data Type	Version	Update Cycle
<b>Waste</b>		
<b>BGS Recorded Landfill Sites</b> British Geological Survey National Geoscience Information Service	June-1996	Not Applicable
<b>Integrated Pollution Control Registered Waste Sites</b> Environment Agency North East Region	July-2005	Quarterly
<b>Licensed Waste Management Facilities (Landfill Boundaries)</b> Environment Agency - North East Region Ridings Area	June-2005	Quarterly
<b>Licensed Waste Management Facilities (Locations)</b> Environment Agency - North East Region Ridings Area	July-2005	Quarterly
<b>Local Authority Landfill Coverage</b> Barnsley Metropolitan Borough Council Environmental Health and Trading Standards	May-2000	Not Applicable
<b>Local Authority Recorded Landfill Sites</b> Barnsley Metropolitan Borough Council Environmental Health and Trading Standards	February-2005	Not Applicable
<b>Registered Landfill Sites</b> Environment Agency - North East Region Ridings Area	March-2003	Variable
<b>Registered Waste Transfer Sites</b> Environment Agency - North East Region Ridings Area	March-2003	Variable
<b>Registered Waste Treatment or Disposal Sites</b> Environment Agency - North East Region Ridings Area	March-2003	Variable

Data Type	Version	Update Cycle
<b>Hazardous Substances</b>		
<b>Control of Major Accident Hazards Sites (COMAH)</b> Health and Safety Executive	May-2001	Variable
<b>Explosive Sites</b> Health and Safety Executive	October-2005	Bi-Annually
<b>Notification of Installations Handling Hazardous Substances (NIHHS)</b> Health and Safety Executive	November-2000	Not Applicable
<b>Planning Hazardous Substance Consents</b> Barnsley Metropolitan Borough Council Planning Department	September-2004	Annual Rolling Update
<b>Planning Hazardous Substance Enforcements</b> Barnsley Metropolitan Borough Council Planning Department	September-2004	Annual Rolling Update

Data Type	Version	Update Cycle
<b>Geological</b>		
<b>BGS Boreholes</b> British Geological Survey National Geoscience Information Service	September-2005	Quarterly
<b>BGS Recorded Mineral Sites</b> British Geological Survey National Geoscience Information Service	September-2005	Bi-Annually
<b>BGS 1:625,000 Solid Geology</b> British Geological Survey National Geoscience Information Service	August-1996	Not Applicable
<b>Brine Compensation Areas</b> Cheshire Brine Subsidence Compensation Board	November-2002	As notified
<b>Coal Mining Affected Areas</b> The Coal Authority Mining Report Service	December-2003	As notified
<b>Shallow Mining Hazards</b> British Geological Survey National Geoscience Information Service	August-2002	Variable
<b>Potential for Collapsible Ground Stability Hazards</b> British Geological Survey National Geoscience Information Service	May-2005	Annually
<b>Potential for Compressible Ground Stability Hazards</b> British Geological Survey National Geoscience Information Service	May-2005	Annually
<b>Potential for Ground Dissolution Stability Hazards</b> British Geological Survey National Geoscience Information Service	May-2005	Annually
<b>Potential for Landslide Ground Stability Hazards</b> British Geological Survey National Geoscience Information Service	May-2005	Annually
<b>Potential for Running Sand Ground Stability Hazards</b> British Geological Survey National Geoscience Information Service	May-2005	Annually
<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> British Geological Survey National Geoscience Information Service	May-2005	Annually
<b>Mining Instability</b> Ove Arup & Partners	October-2000	Not Applicable
<b>Natural and Mining Cavities</b> Peter Brett Associates	October-2001	Variable
<b>Radon Affected Areas</b> Health Protection Agency	January-2003	Not Applicable
<b>Radon Protection Measures</b> British Geological Survey National Geoscience Information Service	August-2002	Variable

Data Type	Version	Update Cycle
<b>Industrial Land Use</b>		
<b>Contemporary Trade Directory Entries</b> Thomson Directories	July-2005	Bi-Annually
<b>Fuel Station Entries</b> Catalist Ltd (Fuel Station Data)	August-2005	Quarterly

Data Type	Version	Update Cycle
<b>Sensitive Land Uses</b>		
<b>Areas of Adopted Green Belt</b> Barnsley Metropolitan Borough Council Planning Department	December-2000	As notified
<b>Areas of Unadopted Green Belt</b> Barnsley Metropolitan Borough Council Planning Department	December-2000	As notified
<b>Areas of Outstanding Natural Beauty</b> The Countryside Agency	October-2004	Annually
<b>Environmentally Sensitive Areas</b> Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	December-2004	Annually
<b>Forest Parks</b> Forestry Commission	April-1997	Not Applicable
<b>Local Nature Reserves</b> Barnsley Metropolitan Borough Council Planning Department	September-1999	As notified
<b>Marine Nature Reserves</b> English Nature	December-2004	Bi-Annually
<b>National Nature Reserves</b> English Nature	December-2004	Bi-Annually
<b>National Parks</b> The Countryside Agency	October-2004	Annually
<b>Nitrate Sensitive Areas</b> Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	December-2003	Not Applicable
<b>Nitrate Vulnerable Zones</b> Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	March-2005	Annually
<b>Ramsar Sites</b> English Nature	December-2004	Bi-Annually
<b>Sites of Special Scientific Interest</b> English Nature	December-2004	Bi-Annually
<b>Special Areas of Conservation</b> English Nature	December-2004	Bi-Annually
<b>Special Protection Areas</b> English Nature	December-2004	Bi-Annually

Some of the organisations who provide data which is used within the report

<p>Ordnance Survey</p>	 <p>Ordnance Survey<sup>®</sup> Licensed Partner</p>
<p>Environment Agency</p>	 <p>Environment Agency</p>
<p>Scottish Environment Protection Agency</p>	 <p>SEPA Scottish Environment Protection Agency</p>
<p>The Coal Authority</p>	 <p>THE COAL AUTHORITY</p>
<p>British Geological Survey</p>	 <p><b>British Geological Survey</b> NATURAL ENVIRONMENT RESEARCH COUNCIL</p>
<p>Centre for Ecology and Hydrology</p>	 <p><b>Centre for Ecology &amp; Hydrology</b> NATURAL ENVIRONMENT RESEARCH COUNCIL</p>
<p>Countryside Council for Wales</p>	 <p>CYNGOR CEFN GWLAD CYMRU COUNTRYSIDE COUNCIL FOR WALES</p>
<p>Scottish Natural Heritage</p>	 <p>SCOTTISH NATURAL HERITAGE</p>
<p>English Nature Site of Special Scientific Interest, National Nature Reserve, Ramsar, Special Protection Area, Special Conservation Area, Marine Nature Reserve data (derived from Ordnance Survey 1:10000 raster) is provided by, and used with the permission of, English Nature who retain the copyright and Intellectual Property Rights for the data</p>	 <p>ENGLISH NATURE</p>
<p>Health Protection Agency</p>	 <p>Health Protection Agency</p>
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**Contact Name and Address**

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<b>2</b>	<b>Environment Agency National Customer Contact Centre (NCCC)</b> PO Box 544 Templeborough Rotherham S60 1BY  <a href="mailto:enquiries@environment-agency.gov.uk">enquiries@environment-agency.gov.uk</a>	Telephone 08708 506 506
<b>3</b>	<b>British Geological Survey Enquiry Service</b> British Geological Survey Kingsley Dunham Centre Keyworth Nottingham Nottinghamshire NG12 5GG  <a href="mailto:enquiries@bgs.ac.uk">enquiries@bgs.ac.uk</a> <a href="http://www.bgs.ac.uk">www.bgs.ac.uk</a>	Telephone 0115 936 3143 Fax 0115 936 3276
<b>4</b>	<b>The Coal Authority Mining Report Service</b> 200 Lichfield Lane Mansfield Nottinghamshire NG18 4RG  <a href="mailto:thecoalauthority@coal.gov.uk">thecoalauthority@coal.gov.uk</a>	Telephone 0845 7626848 DX 716176 Mansfield 5
<b>5</b>	<b>Health Protection Agency</b> Chilton Didcot Oxfordshire OX11 0RQ	Telephone 01235 831600 Fax 01235 833891

**Contact Name and Address**

<b>6</b>	<b>Barnsley Metropolitan Borough Council Planning Department</b> Central Offices Kendray Street Barnsley South Yorkshire S70 2TN  www.barnsley.gov.uk	Telephone 01226 770770 Fax 01226 772599
<b>7</b>	<b>Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)</b> Government Buildings Otley Road Lawnswood Leeds West Yorkshire LS16 5QT	Telephone 0113 2613333 Fax 0113 230 0879
<b>8</b>	<b>English Nature</b> Northminster House Northminster Road Peterborough Cambridgeshire PE1 1UA	Telephone 01733 455000 Fax 01733 568834

**Contact      Name and Address****Catalist Ltd (Fuel Station Data)**

Richmond House

22 Richmond Hill

Clifton

Bristol

Avon

BS8 1BA

Mark@catalist-uk.com

Telephone 0117 923 7113

Fax 0117 923 7166

**Landmark Information Group Limited**

The Smith Centre

Henley On Thames

Oxfordshire

RG9 6AB

customerservices@landmarkinfo.co.uk

[www.landmark-information.co.uk](http://www.landmark-information.co.uk)

Telephone 0870 850 6670

Fax 0870 850 6671

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



**British Geological Survey**  
 NATURAL ENVIRONMENT RESEARCH COUNCIL

### **Borehole Records Order Form**

<b>Name:</b> .....	<b>Your Ref/Order no:</b>
<b>Company:</b> .....	<b>Our Ref: ISGR/</b>
<b>Address:</b> .....	<b>Tel:</b> .....
.....	<b>Fax:</b> .....
<b>Postcode:</b> .....	.....

Quarter Sheet (eg. SE5ONE)	Number (eg. 21)	Suffix (if given) (eg. A-Z)	Name (eg. Bentley Village Sewer TP 1)

Please note: More than 10 records can be ordered, but it is advisable to discuss your requirements first with NGRC staff, as interpreted geological reports are also available.

**RESPONSE TIMES MAY VARY DUE TO CUSTOMER DEMAND AND STAFF AVAILABILITY**

(Please tick required service)

- Standard Service (variable within 5 days)**  
 **Premium Service (24 hour response, £30 additional charge)**

**Delivery Method Required:** (Please tick) **Post**  **Special Delivery £3**  **Fax 50p (per sheet)**

Borehole unit price is £13 + VAT, Minimum charge £26 + VAT (includes 1st class postage).

Special Requirements or comments:

Please return form to: Records & Data Enquiries, British Geological Survey, Keyworth, Nottingham NG12 5GG.  
 Tel: 01159363143 Fax: 01159363276 R-mail: enquiries@bgs.ac.uk

# LANDMARK TERMS AND CONDITIONS

## Definitions

**"Account"** means the credit account established by a Member with Landmark.

**"Agreement"** means the agreement between Ourselves created by Your acceptance of these Terms.

**"Authorised Reseller"** means an agent or reseller of Landmark whom Landmark has duly appointed to resell its Reports and Services.

**"Client"** means the individual or organisation to whom You provide professional services and/or Your professional advisors where applicable.

**"Content"** means any data, computing and information services and software, and other content and documentation or support materials and updates included in and/or supplied by or through the Websites, in Reports or Services or in any other way by Landmark and shall include Landmark developed and Third Party Content.

**"Designated Users"** means individuals appointed by Members to transact across the Member's Account.

**"Intellectual Property Rights"** means all forms of intellectual property or protective rights recognised in law.

**"Member"** means the person, firm or organisation who establishes and/or uses the Account.

**"Order"** means the request for Services from Landmark by You.

**"Property Site"** means a land site on which a Member requests Landmark provide either a Report or any other Service.

References to **"We"**, **"Us"** and **"Our"** are references to Landmark Information Group Limited ("Landmark"), whose registered office is 7 Abbey Court, Eagle Way, Exeter, EX2 7HY. Where You are not ordering the Services directly from Landmark, but from an Authorised Reseller, references to "Landmark" or "We", "Us" and "Our" shall be construed so as to mean either Landmark and/or the Authorised Reseller as the context shall indicate.

References to **"You/Your/Yourself"** refer to the contracting party who places an Order with Landmark and for whom the Services are to be provided by Landmark.

**"Report"** includes any information that Landmark supplies to You including all reports, services, datasets, software or information contained in them.

**"Services"** means the provision of any service by Landmark pursuant to these Terms which at the sole discretion of Landmark, may be time limited, for the purposes of evaluation only, offer reduced functionality, offer limited access to the Content, or be free of charge including but not limited to the report(s), data, information or other services undertaken by Landmark.

**"Landmark Fees"** means any charges levied by Landmark for Services provided to You

**"Suppliers"** means any organisation who provides data or information of any form to Landmark.

**"Terms"** means these Terms and Conditions.

**"Third Party Content"** means the services, software, information and other content or functionality provided by third parties and linked to or contained in the Services.

**"Websites"** means websites hosted by Landmark and includes the Content and any report, service, document, data-set, software or information contained therein, derived there from or thereby.

## 1. Terms and Conditions

a. These Terms govern the relationship between You and Landmark whether You are an unregistered visitor to the Website or a registered Member purchasing Landmark products or Services from Landmark.

b. Where these Terms are not expressly accepted by You they will be deemed to have been accepted by You, and You agree to be bound by these Terms when You place any Order, or pay for any Services provided or Reports ordered.

c. If the person communicating with Landmark is an Authorised Reseller, they must ensure that You agree to these Terms.

d. The headings in these Terms are for convenience only and shall not affect the meaning or interpretation of any part of these Terms.

e. We may modify these Terms, and may discontinue or revise any or all other aspects of the Services at our sole discretion, with immediate effect and without prior notice. Any amendment or variation to these Terms shall be posted on our Websites. Continued use of the Services by You shall be deemed an acceptance by You to be bound by any such amendments to the Terms.

f. Landmark reserves the right to refuse to supply Services to You or any other potential client without notice or reason.

## 2. Reports

Whilst Landmark will use reasonable care and skill in providing the Services to You the Services are provided on the express basis that You acknowledge and agree to the following:-

a. The information and data supplied in the Services are derived from publicly available records and other third party sources and Landmark does not warrant the accuracy or completeness of such information or data; and

b. The information and data supplied in the Services are

derived solely from those sources specifically cited in the Report Landmark does not claim that these sources represent an exhaustive or comprehensive list of all sources that might be consulted; and

c. Landmark does not guarantee that all past or current land uses or features will be identified in the Report; and

d. The Services provided by Landmark are professional business to business services and not intended for use or interpretation by persons other than professional persons skilled in the use of property and environmental information; and

e. Landmark shall not be responsible for error or corruption in the Report resulting from inaccuracy or omission in primary or secondary information and data, inaccurate processing of information and data by third parties, computer malfunction or corruption of data whilst in the course of conversion, geo-coding, processing by computer or electronic means, or in the course of transmission by telephone or other communication link, or printing.

f. Landmark reserves the right, without limitation, to change the Reports or Services on offer at any time.

## 3. Intellectual Property

a. You acknowledge that all Intellectual Property Rights in the Report and Services are and shall remain owned by either Landmark or our Suppliers and nothing in these Terms purports to transfer, assign or grant any rights to You in respect of the Intellectual Property Rights.

b. Subject to clause 6.f, You are entitled to make the following use of the Services and Reports subject always to these Terms and You may, without further charge, make the Report or Services available to;

- any person who purchases the whole of the Property Site,
- any person who provides funding secured on the whole of the Property Site,
- any person for whom You act in a professional or commercial capacity, and
- any person who acts for You in a professional or commercial capacity.

Accordingly Landmark shall have the same duties and obligations to those persons in respect of the Services as it has to You.

c. Each of those persons referred to in Clause 3.b. shall have the benefit and the burden of Your rights and obligations under these Terms. The limitations of Landmark's liability as set out in Clause 6 shall apply.

d. The Report is to be used solely for the benefit of You and Your Client and such persons as are set out in Clause 3.b, and Landmark excludes all liability to all other persons unless Landmark has expressly agreed in writing to the assignment of the benefit of the Report and has been paid Landmark's reasonable fees for so doing.

e. All parties given access to the Services agree that they will treat as strictly private and confidential the Services and all information which they obtain from the Services and shall restrict any disclosure to employees or professional advisors to enable the relevant party to conduct its internal business. The requirement in this clause to treat the Services as confidential shall include a requirement to maintain adequate security measures to safeguard the Services from unauthorised access, use or copying.

f. Each recipient of the Services agrees (and agrees it will cause its employees, agents or contractors who may from time to time have access to the Services to agree) it will not, except as permitted herein or by separate agreement with Landmark:-

- effect or attempt to effect any modification, merger or change to the Service, nor permit any other person to do so; or
- copy, use, market, re-sell, distribute, merge, alter, add to or carry on any redistribution, reproduction, translation, publication, reduction to any electronic medium or machine readable form or commercially exploit or in any other way deal with or utilise or (except as expressly permitted by applicable law) reverse engineer, decompile or disassemble the Services, Reports, Content or Website; or
- remove, alter or in any way change any trademark or proprietary marking in any element of the Services and You acknowledge the ownership of the Content is as per this Clause, where such Content is incorporated or used into Your own documents, reports, systems or services whether or not these are supplied to any third party.
- create any product which is derived directly or indirectly from the data contained in the Services

g. You shall acknowledge the ownership of the Content where such is incorporated into Your own documents, reports, systems or services whether or not these are supplied to any third party.

h. You are permitted to make five copies of any Report, but are not authorised to re-sell the Report, any part thereof or any copy thereof unless you are an Authorised Reseller. Further copies may not be made in

whole or in part without the prior written permission of Landmark who shall be entitled to make a charge for each additional copy.

i. You hereby agree to fully indemnify Landmark against any claim losses or other damages suffered by Landmark as a result any breach by any recipient of the Services of these Terms.

j. You agree that You will comply with any reasonable instructions that We may give from time to time with regard to the use of the Intellectual Property Rights, including but not limited to acknowledging that the Services and Reports are confidential to You, Your Client or the persons set out in Clause 3.b.

k. The mapping contained in any Services is protected by Crown Copyright and must not be used for any purpose outside the context of the Services or as specifically provided by these Terms.

## 4. Charges

a. Landmark may grant You a credit limit in order to allow You to transact with it or set up an Account and reserves the right to withdraw any such credit limit at any time without prior notice.

b. You are fully responsible for all charges that accumulate on Your Account.

c. VAT at the prevailing rate shall be payable in addition to the Landmark Fees. You shall pay any other applicable indirect taxes related to Your use of the Services.

d. An individual or a monthly invoice showing all Orders created will be generated subject to these Terms. You will pay the Landmark Fees at the rates set out in Landmark's or its Authorised Reseller's invoice. The Landmark Fees are payable in full within 28 days without deduction, counterclaim or set off. You acknowledge that time is of the essence with respect to the payment of such invoices. Non-payment of Landmark Fees may, at Our sole discretion result in Landmark terminating or limiting the use of Your Account and its provision of Services to You. Landmark reserve the right to amend the Landmark Fees from time to time and the Services will be charged at the Landmark Fee applicable at the date on which the Service is ordered.

e. We may charge interest on late payment at a rate equal to 8% per annum above the base lending rate of National Westminster Bank plc.

f. Landmark or its Authorised Reseller shall not be obliged to invoice any party other than You for the provision of Services, but where Landmark or its Authorised Reseller does so invoice any third party at Your request, and such invoice is not accepted or remains unpaid, Landmark or its Authorised Reseller shall have the option at any time to cancel such invoice and invoice You direct for such Services. Where Your order comprises a number of Services or severable elements within any one or more Services, any failure by Landmark or its Authorised Reseller to provide an element or elements of the Services shall not prejudice Landmark's or its Authorised Reseller's ability to require payment in respect of the Services delivered to You

## 5. Termination

a. Landmark may suspend or terminate Your rights under these Terms without any liability to You with immediate effect if at any time:-

- You fail to make any payment due in accordance with Clause 4;
- You repeatedly breach or commit or cause to be committed any material breach of these Terms; or
- You commit a breach and You fail to remedy the breach within 7 days of receipt of a written notice to do so Landmark may remedy the breach and recover the costs thereof from You; or
- You commit an act of bankruptcy or insolvency, are unable to pay Your debts as or when they fall due or make any composition or arrangement with Your creditors, or go into liquidation whether voluntary or compulsory, or if any order is made or a resolution is passed for Your winding up (except for the purpose of a solvent amalgamation or reconstruction), or if You cease or prepare to cease trading, or if You suffer the appointment of a receiver, administrative receiver, administrator or similar officer over the whole or part of any of Your assets.

If Your rights are terminated under this Clause and You have made an advance payment We will refund You a reasonable proportion of the balance as determined by Us in relation to the value of Services previously purchased.

c. We may suspend the Agreement between You and Landmark for an indefinite period without notice and at any time if in Our opinion You are in breach of any of the provisions of these Terms.

## 6. Liability

a. We provide warranties and accept liability only to the extent stated in this Clause 6.

b. Nothing in these Terms excludes either party's liability for death or personal injury caused by that party's

negligence or willful default.

- c. As most of the information contained in the Services is provided to Landmark by others, Landmark cannot control its accuracy or completeness, nor is it within the scope of Landmark's Services to check the information on the ground. Accordingly, subject to clause 6b, Landmark will only be liable to You for any loss or damage caused by its negligence or willful default and neither Landmark nor any person providing information contained in any Services shall in any other circumstances be liable for any inaccuracies, faults or omissions in the Services nor shall Landmark have any liability if the Services are used otherwise than in accordance with these Terms.
- d. Save as precluded by law, Landmark shall not be liable for any indirect or consequential loss, damage or expenses (including loss of profits, loss of contracts, business or goodwill) howsoever arising out of any problem, event, action or default by Landmark or any indirect or consequential loss of any nature whatsoever or for any physical damage to or loss of Your tangible property, any other direct loss, damage, cost or expense of any kind or any indirect or consequential loss, damage, cost or expense of any kind, whether any of the above arise under contract, tort (including negligence), an indemnity or contribution or otherwise.
- e. In any event, and notwithstanding anything contained in these Terms, Landmark's liability in contract, tort (including negligence or breach of statutory duty) or otherwise howsoever arising by reason or in connection with this Contract (except in relation to death or personal injury) shall be limited to an aggregate amount not exceeding £1 million if the complaint is in relation to a Report on residential property and an amount not exceeding £10 million in respect of any other Report or Service purchased from Landmark except in so far as Landmark will not be liable for any defect, failure or omission relating to Services that is not notified to Landmark within six months of the date of the issue becoming apparent and in any event, within one year of the date of the Report if the complaint is in relation to a Report on residential property and within six years of the date of the Report in respect of any other Report or Service. Where any claim relates to either a part of the Services that is not chargeable or if You have been in breach of any part of these Terms Landmark's liability shall be limited to £1,000.
- f. No person may rely on the Report more than 12 months after its original date.
- g. You acknowledge that:-
- i. You shall have no claim or recourse against any Third Party Content supplier nor any of our other Suppliers. You will not in any way hold us responsible for any selection or retention of, or the acts or omissions of Third Party Content suppliers or other Suppliers (including those with whom We have contracted to operate various aspects or parts of the Service) in connection with the Services (for the avoidance of doubt Landmark is not a Third Party Content supplier). Landmark does not promise that the supply of the Services will be uninterrupted or error free or provide any particular facilities or functions, or that the Content will always be complete, accurate, precise, free from defects of any other kind, computer viruses, software locks or other similar code although Landmark will use reasonable efforts to correct any inaccuracies within a reasonable period of them becoming known to us;
- ii. Landmark's only obligation is to exercise the reasonable skill and care in providing environmental property risk information to persons acting in a professional or commercial capacity and You hereby acknowledge that You are such a person;
- iii. no physical inspection of the Property Site reported on is carried out as part of any Services offered by Landmark and as such We do not warrant that all land uses or features whether past or current will be identified in the Services and the Services do not include any information relating to the actual state or condition of any Property Site nor should they be used or taken to indicate or exclude actual fitness or unfitness of a Property Site for any particular purpose nor should it be relied upon for determining saleability or value or used as a substitute for any physical investigation or inspection;
- iv. You should carefully inspect the Property Site, and take any other advice that would be reasonably prudent to do prior to making any decision about the Property Site to which any Report or Service relates and not rely exclusively on the Report or any other Landmark Services in terms of valuing the Property Site;
- v. Landmark will not be held liable in any way if a Report on residential property is used for commercial property or more than the one residential property for which it was ordered;
- vi. the Services have not been prepared to meet You or anyone else's individual requirements; that You assume the entire risk as to the suitability of the Services and waive any claim of detrimental reliance upon the same; and You confirm You are solely responsible for the selection or omission of any specific part of the Content;
- vii. You shall be solely responsible for maintaining the confidentiality of Your passwords (including Your Designated Users' password(s)) and You will notify us immediately that You become aware of any unauthorised access to, use or copying of any part of Services or document or report derived or downloaded there from by anyone;
- viii. You must observe and comply with all applicable regulations and legislation;
- ix. We offer no warranty for the performance of any linked internet service not operated by Us;
- x. You will on using the Services make a reasonable inspection of any results to satisfy Yourself that there are no defects or failures. In the event that there is a material defect You will notify us in writing of such defect within seven days of its discovery;
- xi. without prejudice to any restrictions set out in these Terms, if in the course of Your business or otherwise You use for the benefit of or convey to any third party any part of the Website, Content, or Services You must make such third parties aware of the limitations, obligations and acknowledgements contained herein;
- xii. any support or assistance provided to You in connection with these Terms is at Your risk;
- xiii. the information contained in the Services has been extracted from various Crown Copyright and other published sources, and accordingly, Landmark does not accept any responsibility, and expressly disclaims all liability, for any errors, omissions or misstatements, or for any loss occasioned to any person acting, or refraining from action, as a result of, or in reliance upon, the information contained in these Services;
- h. All liability for any insurance products purchased by You rests solely with the insurer. Landmark does not endorse any particular product or insurer and no information contained within the Services should be deemed to imply otherwise. You acknowledge that if You Order any such insurance Landmark will deem such as Your consent to forward a copy of the Report to the insurers. Where such policy is purchased, all liability remains with the insurers and You are entirely responsible for ensuring that the insurance policy offered is suitable for Your needs and should seek independent advice. Landmark does not guarantee that an insurance policy will be available on a Property Site. All decisions with regard to the offer of insurance policies for any premises will be made solely at the discretion of the insurers and Landmark accepts no liability in this regard. The provision of a Report does not constitute any indication by Landmark that insurance will be available on the property.
- i. If Landmark provides You with any additional service obtained from a third party, including but not limited to any professional opinion, interpretation or conclusion, risk assessment or environmental report or search carried out in relation to a Report on Your Property Site, Landmark will not be liable in any way for any information contained therein or any issues arising out of the provision of those additional services to You or Your Client. Landmark will be deemed to have acted as an agent in these circumstances and the supply of these additional services will be governed by the terms and conditions of those Third Parties. For the avoidance of doubt, those parties providing assessments or professional opinions on Landmark products include RPS Plc & Willbourn Associates Limited. Copies of their terms and conditions are available on request from Landmark.
- j. Landmark has undertaken the Services for use only by the persons referred to at clause 3b and for no other purpose whatsoever and the Services should not be relied upon by any other third party. Landmark can accept no responsibility and will not be liable to any third party for any loss caused as a result of reliance upon the Services. Any third party relying on the Services does so entirely at its own risk, including without limitation any insurers referred to in this clause 6. Recipients of the Services are to rely on their own skill and judgment in determining the suitability of the Services for their own purpose and use and are advised to use the Services with caution and not base important business decisions solely on the same. Landmark Services are merely one of the tools available for the assessment of environmental, geological or other property or land-related risks and should be used in conjunction with other recognised methods of evaluation.
- k. Time shall not be of the essence with respect to the provision of the Services.
- 7. Events Beyond Our Control**  
You acknowledge that Landmark shall not be liable for any delay, interruption or failure in the provision of the Services which are caused or contributed to by any circumstance which is outside our reasonable control including but not limited to, lack of power, telecommunications failure or overload, computer malfunction, inaccurate processing of data, or delays in receiving, loading or checking data, corruption of data whilst in the course of conversion, geo-coding, processing by computer in the course of electronic communication, or printing.
- 8. Severability**  
If any provision of these Terms are found by either a court or other competent authority to be void, invalid, illegal or unenforceable, that provision shall be deemed to be deleted from these Terms and never to have formed part of these Terms and the remaining provisions shall continue in full force and effect.
- 9. Governing Law**  
This Agreement shall be governed by and construed in accordance with English law and each party agrees irrevocably submit to the exclusive jurisdiction of the English courts as regards any claim or matter arising under this Agreement. If any dispute arises out of or in connection with this agreement (a "Dispute") the parties undertake that, prior to the commencement of Court proceedings, they will seek to have the Dispute resolved amicably by use of an alternative dispute resolution procedure acceptable to both parties with the assistance of the Centre for Dispute Resolution (CEDR) if required, by written notice initiating that procedure. If the Dispute has not been resolved to the satisfaction of either party within 60 days of initiation of the procedure or if either party fails or refuses to participate in or withdraws from participating in the procedure then either party may refer the Dispute to the Court.
- 10. Entire Agreement**
- a. These Terms, together with the prices and delivery details set out on our Websites and Your Order comprise the whole of our agreement relating to the supply of Services to You by Landmark. No prior stipulation, agreement, promotional material or statement whether written or oral made by any sales or other person or representative on our behalf should be understood as a variation of these Terms or as an authorised representation about the nature or quality of any Services offered for sale by us. Save for fraud or misrepresentation, Landmark shall have no liability for any such representation being untrue or misleading.
- b. These Terms shall prevail at all times to the exclusion of all other terms and conditions including any terms and conditions which You may purport to apply even if such other provisions are submitted in a later document or purport to exclude or override these Terms and neither the course of conduct between parties nor trade practice shall act to modify these Terms.
- 11. General**
- a. You shall not without our prior written consent assign, or transfer in any way the benefit of these Terms in whole or in part or any of Your obligations under these Terms save as provided by Clause 3.b. Your right to use the Services, operate Your Account or to designate users is not transferable
- b. Landmark may assign its rights and obligations under these Terms without prior notice or any limitation.
- c. We may authorise or allow our contractors and other third parties to provide to Us and/or to You services necessary or related to the Services and to perform Our obligations and exercise Our rights under these Terms, which may include collecting payment on Our behalf.
- d. No waiver on our part to exercise, and no delay in exercising, any right, power or provision hereunder shall operate as a waiver thereof, nor shall any single or partial exercise of any right, power or provision hereunder preclude the exercise of that or any other right, power or provision.
- e. References in these Terms to any legislation shall be construed as references to the same as amended or re-enacted from time to time and shall include subordinate legislation or regulations.
- f. Unless otherwise stated in these Terms, all notices from You to Landmark must be in writing and sent to the Landmark registered office (or in the case of an Authorised Reseller, to its registered office address) and all notices from Us to You will be displayed on our Websites from time to time.
- g. A person who is not a party to any contract made pursuant to these Terms shall have no right under the Contract (Right of Third Parties) Act 1999 to enforce any terms of such contract and Landmark shall not be liable to any such third party in respect of any Services supplied.
- h. Landmark reserves the right to monitor or record telephone calls for training purposes.

## Envirocheck<sup>®</sup> Report:

### Historical Map List

**Report on:**

Low Laithes Farm  
Low Laithes  
BarnsleyS71 5HB

**National Grid Reference :**

438850, 404770

**Prepared For :**

Eastwood & Partners  
11163  
St Andrews House  
23 Kingfield Road  
SheffieldS11 9AS

**Your Reference**

Mr J Wood,28587

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**Ordnance Survey County Series Published 1892 to 1893**

(1)

County	Mapsheet	Scale	Year
Yorkshire	275_09	1:2,500	1893
Yorkshire	275_13	1:2,500	1892

**Ordnance Survey County Series Published 1906**

(2)

County	Mapsheet	Scale	Year
Yorkshire	275_09	1:2,500	1906
Yorkshire	275_13	1:2,500	1906

**Ordnance Survey County Series Published 1931**

(3)

County	Mapsheet	Scale	Year
Yorkshire	275_09	1:2,500	1931
Yorkshire	275_13	1:2,500	1931

**Ordnance Survey Plan Published 1962**

(1)

National Grid Series	Mapsheet	Scale	Year
Ordnance Survey Plan	SE3804	1:2,500	1962
Ordnance Survey Plan	SE3805	1:2,500	1962
Ordnance Survey Plan	SE3904	1:2,500	1962
Ordnance Survey Plan	SE3905	1:2,500	1962

**Ordnance Survey Plan Published 1968 to 1970**

(2)

National Grid Series	Mapsheet	Scale	Year
Ordnance Survey Plan	SE3804	1:2,500	1970
Ordnance Survey Plan	SE3805	1:2,500	1968
Ordnance Survey Plan	SE3904	1:2,500	1970
Ordnance Survey Plan	SE3905	1:2,500	1968

**Ordnance Survey Plan Published 1982**
**(1)**

National Grid Series	Mapsheet	Scale	Year
Ordnance Survey Plan	SE3804NE	1:1,250	1982
Ordnance Survey Plan	SE3804SE	1:1,250	1982
Ordnance Survey Plan	SE3904SW	1:1,250	1982

**Additional SIMs Published 1980 to 1983**
**(1)**

National Grid Series	Mapsheet	Scale	Year
Ordnance Survey Plan	SE3804	1:2,500	1980
Ordnance Survey Plan	SE3904	1:2,500	1980
Ordnance Survey Plan	SE3905	1:2,500	1983

**Additional SIMs Published 1985**
**(2)**

National Grid Series	Mapsheet	Scale	Year
Ordnance Survey Plan	SE3904	1:2,500	1985

**Large-Scale National Grid Data Published 1993**
**(1)**

National Grid Series	Mapsheet	Scale	Year
Ordnance Survey Plan	SE3905	1:2,500	1993

**Large-Scale National Grid Data Published 1993**
**(1)**

National Grid Series	Mapsheet	Scale	Year
Ordnance Survey Plan	SE3804NE	1:1,250	1993
Ordnance Survey Plan	SE3804SE	1:1,250	1993
Ordnance Survey Plan	SE3805SE	1:1,250	1993
Ordnance Survey Plan	SE3904NW	1:1,250	1993
Ordnance Survey Plan	SE3904SW	1:1,250	1993

**Large-Scale National Grid Data Published 1994**

(2)

National Grid Series	Mapsheet	Scale	Year
Ordnance Survey Plan	SE3804SE	1:1,250	1994
Ordnance Survey Plan	SE3904SW	1:1,250	1994

**Ordnance Survey County Series Published 1854**

(1)

County	Mapsheet	Scale	Year
Yorkshire	275_00	1:10,560	1854

**Ordnance Survey County Series Published 1894**

(2)

County	Mapsheet	Scale	Year
Yorkshire	275_SW	1:10,560	1894

**Ordnance Survey County Series Published 1907**

(3)

County	Mapsheet	Scale	Year
Yorkshire	275_SW	1:10,560	1907

**Ordnance Survey County Series Published 1938**

(4)

County	Mapsheet	Scale	Year
Yorkshire	275_SW	1:10,560	1938

**Ordnance Survey Plan Published 1955 to 1956**

(1)

National Grid Series	Mapsheet	Scale	Year
Ordnance Survey Plan	SE30NE	1:10,560	1955
Ordnance Survey Plan	SE30SE	1:10,560	1956
Ordnance Survey Plan	SE40NW	1:10,560	1955
Ordnance Survey Plan	SE40SW	1:10,560	1956

**Ordnance Survey Plan Published 1966 to 1967**
**(2)**

National Grid Series	Mapsheet	Scale	Year
Ordnance Survey Plan	SE30NE	1:10,560	1966
Ordnance Survey Plan	SE30SE	1:10,560	1966
Ordnance Survey Plan	SE40NW	1:10,560	1967
Ordnance Survey Plan	SE40SW	1:10,560	1967

**Ordnance Survey Plan Published 1974 to 1983**
**(1)**

National Grid Series	Mapsheet	Scale	Year
Ordnance Survey Plan	SE30NE	1:10,000	1974
Ordnance Survey Plan	SE30SE	1:10,000	1980
Ordnance Survey Plan	SE40NW	1:10,000	1983
Ordnance Survey Plan	SE40SW	1:10,000	1980

**Ordnance Survey Plan Published 1984**
**(2)**

National Grid Series	Mapsheet	Scale	Year
Ordnance Survey Plan	SE30NE	1:10,000	1984

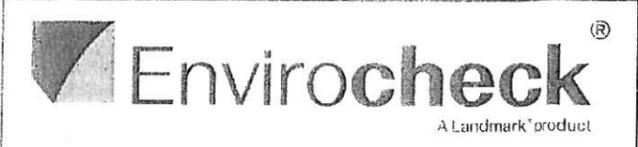
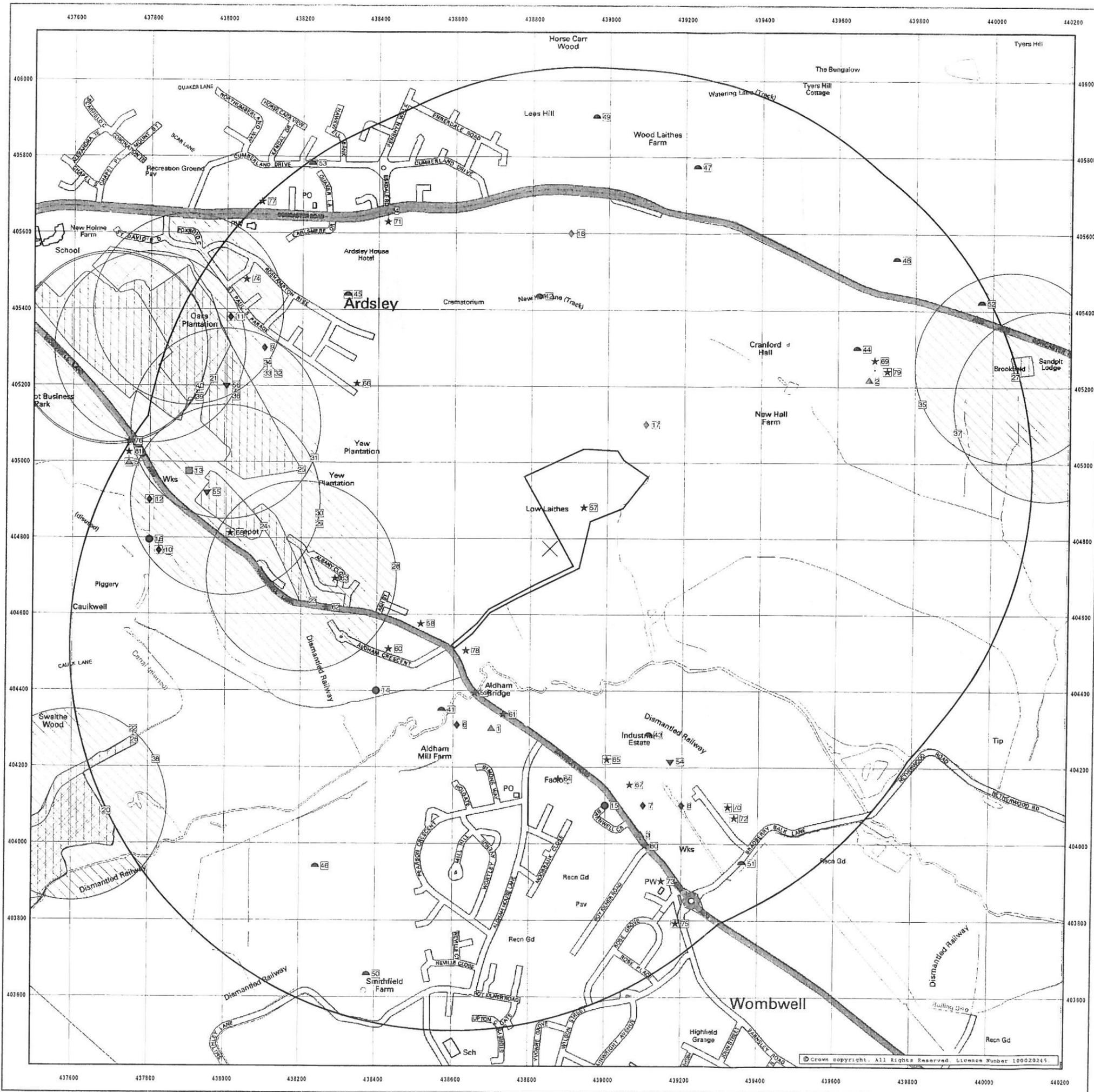
**Ordnance Survey Plan Published 1989 to 1993**
**(3)**

National Grid Series	Mapsheet	Scale	Year
Ordnance Survey Plan	SE30NE	1:10,000	1993
Ordnance Survey Plan	SE30SE	1:10,000	1989
Ordnance Survey Plan	SE40NW	1:10,000	1989
Ordnance Survey Plan	SE40SW	1:10,000	1989

**10K Raster Mapping Published 2000****(1)**

<b>National Grid Series</b>	<b>Mapsheet</b>	<b>Scale</b>	<b>Year</b>
Ordnance Survey Plan	SE30NE	1:10,000	2000
Ordnance Survey Plan	SE30SE	1:10,000	2000
Ordnance Survey Plan	SE40NW	1:10,000	2000
Ordnance Survey Plan	SE40SW	1:10,000	2000

Currently we do not have agreement with Ordnance Survey to provide Large Scale National Grid Data from 1996 onwards.



**CLIENT DETAILS**      Envirocheck Order No. EC15137661\_1\_1  
(03-Nov-2005 09:12)  
 Customer Ref: Mr J Wood,28587  
 Eastwood & Partners  
 St Andrews House 23 Kingfield Road  
 Sheffield  
 S11 9AS

**SITE DETAILS**      Grid Reference    438850    404770  
 Low Lathes Farm  
 Low Lathes  
 Barnsley  
 S71 5HB

KEY TO THE LEGEND DATABASE	
<b>General</b>	<b>Waste</b>
○ Specified Site	▼ Point Location of BGS Recorded Landfill Site
× Bearing Reference Point	□ BGS Recorded Landfill Site
○ Buffer (1000m)	▲ Integrated Pollution Control Registered Waste Site
⑧ Reference Number	▨ Licensed Waste Management Facilities (Landfill Boundary)
□ Several of Type at Location	● Licensed Waste Management Facility (Location)
	■ Point Location of Local Authority Recorded Landfill Site
	▨ Local Authority Recorded Landfill Site
<b>Agency and Hydrological</b>	□ Registered Landfill Site
▲ Local Authority Pollution Prevention and Control	■ Point Location of Registered Waste Transfer Site
▼ Local Authority Pollution Prevention and Control Enforcement	— Registered Waste Transfer Site
● Point Location of Contaminated Land Register Entry or Notice	□ Point Location of Registered Waste Treatment or Disposal Site
□ Contaminated Land Register Entry or Notice	▨ Registered Waste Treatment or Disposal Site
◆ Discharge Consent	
▲ Enforcement Or Prohibition Notice	<b>Hazardous Substances</b>
▲ Integrated Pollution Control	⊠ COMAH Site
■ Integrated Pollution Prevention Control	⊠ Explosive Site
■ Local Authority Integrated Pollution Prevention and Control	⊠ NIHHS Site
● Pollution Incident to Controlled Waters	⊠ Planning Hazardous Substance Consent
◆ Substantiated Pollution Incident Register	⊠ Planning Hazardous Substance Enforcement
▼ Prosecution Relating to Authorised Processes	<b>Geological</b>
◆ Prosecution Relating to Controlled Waters	● BGS Borehole
▲ Registered Radioactive Substance	▼ BGS Recorded Mineral Site
+	<b>Industrial Land Use</b>
+	★ Contemporary Trade Directory Entry
◆ Water Abstraction	★ Fuel Station Entry
◆ Water Industry Act Referral	



**CLIENT DETAILS** Envirocheck Order No. EC15137661\_1\_1  
(03 Nov 2009 09:28)

Customer Ref: Mr J Wood, 28587  
Eastwood & Partners  
St Andrews House 23 Kingfield Road  
Sheffield  
S11 9AS

**SITE DETAILS** Grid Reference 438850 404770

Low Laithes Farm

Low Laithes  
Barnsley  
S71 5HB

**KEY TO THE LEGEND DATABASE**

**General**

- Specified Site
- × Bearing Reference Point
- Buffer (250m)
- Reference Number
- Several of Type at Location
- Pylon
- Overhead Transmission Line

**Waste**

- ▼ Point Location of BGS Recorded Landfill Site
- BGS Recorded Landfill Site
- ▲ Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facilities (Landfill Boundary)
- Licensed Waste Management Facility (Location)
- Point Location of Local Authority Recorded Landfill Site
- Local Authority Recorded Landfill Site
- Registered Landfill Site

**Agency and Hydrological**

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

- Point Location of Registered Waste Transfer Site
- Registered Waste Transfer Site
- Point Location of Registered Waste Treatment or Disposal Site
- Registered Waste Treatment or Disposal Site

**Hazardous Substances**

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

**Geological**

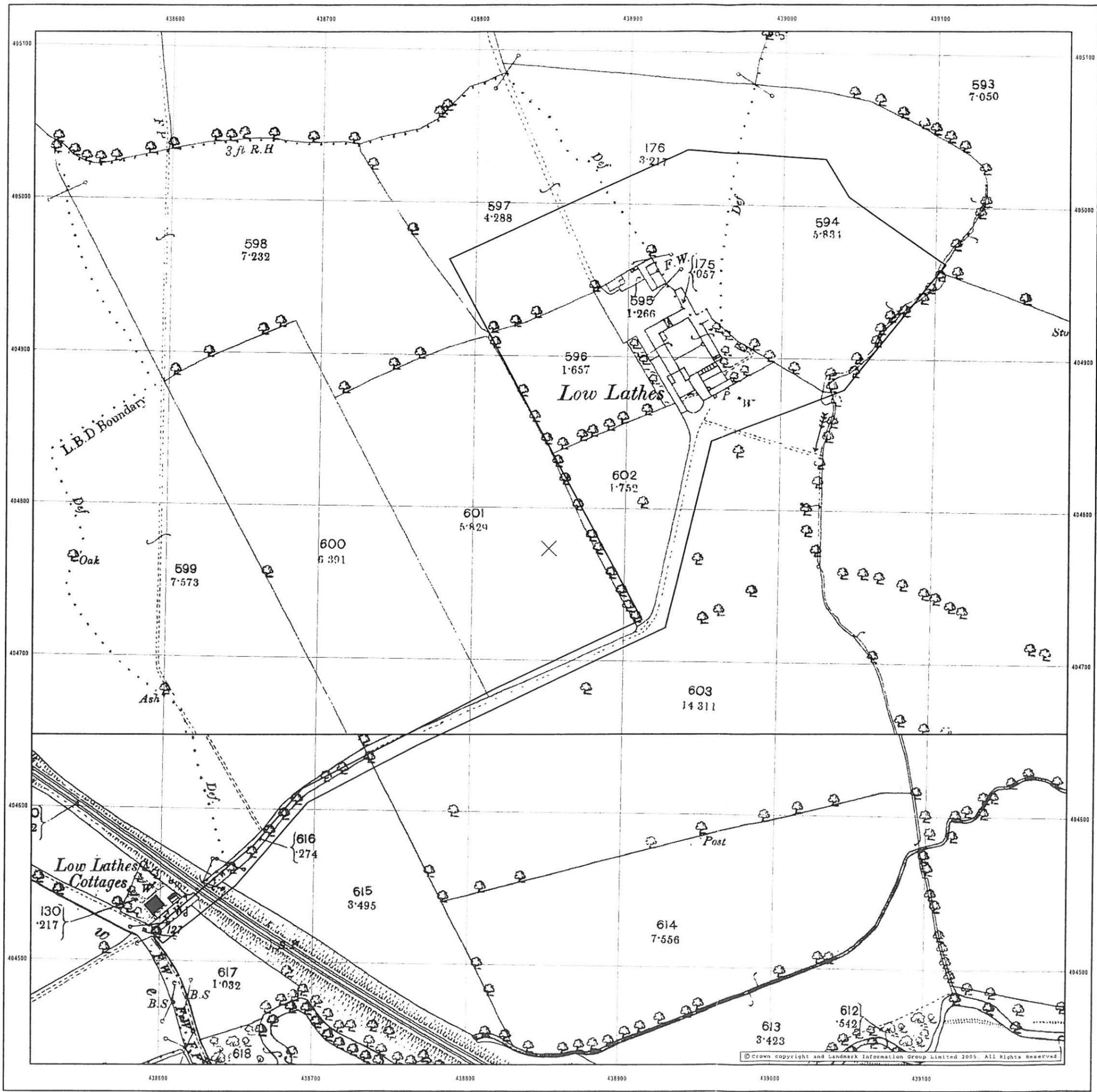
- BGS Borehole
- ▼ BGS Recorded Mineral Site

**Industrial Land Use**

- ★ Contemporary Trade Directory Entry
- ★ Fuel Station Entry



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103 Nov 2005 09 30

Customer Ref: Mr J Wood, 28587  
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 St Andrews House 23 Kingfield Road  
 Sheffield  
 S11 9AS

**SITE DETAILS**      Grid Reference    438850    404770

Low Lathes Farm

Low Lathes  
 Barnsley  
 S71 5HB

**Historical Map Legend**

Quarry	Sand Pit	Marsh	Reeds
Gravel Pit	Clay Pit	Rough Pasture	Furze
Refuse Heap	Shingle	Osiers	Ford
Railway crossing River or Canal	Railway crossing Road	Level Crossing	
Embankment	Cutting	Road crossing Railway	
Road over single Stream	Road over River or Canal	Arrow denotes flow of Water	

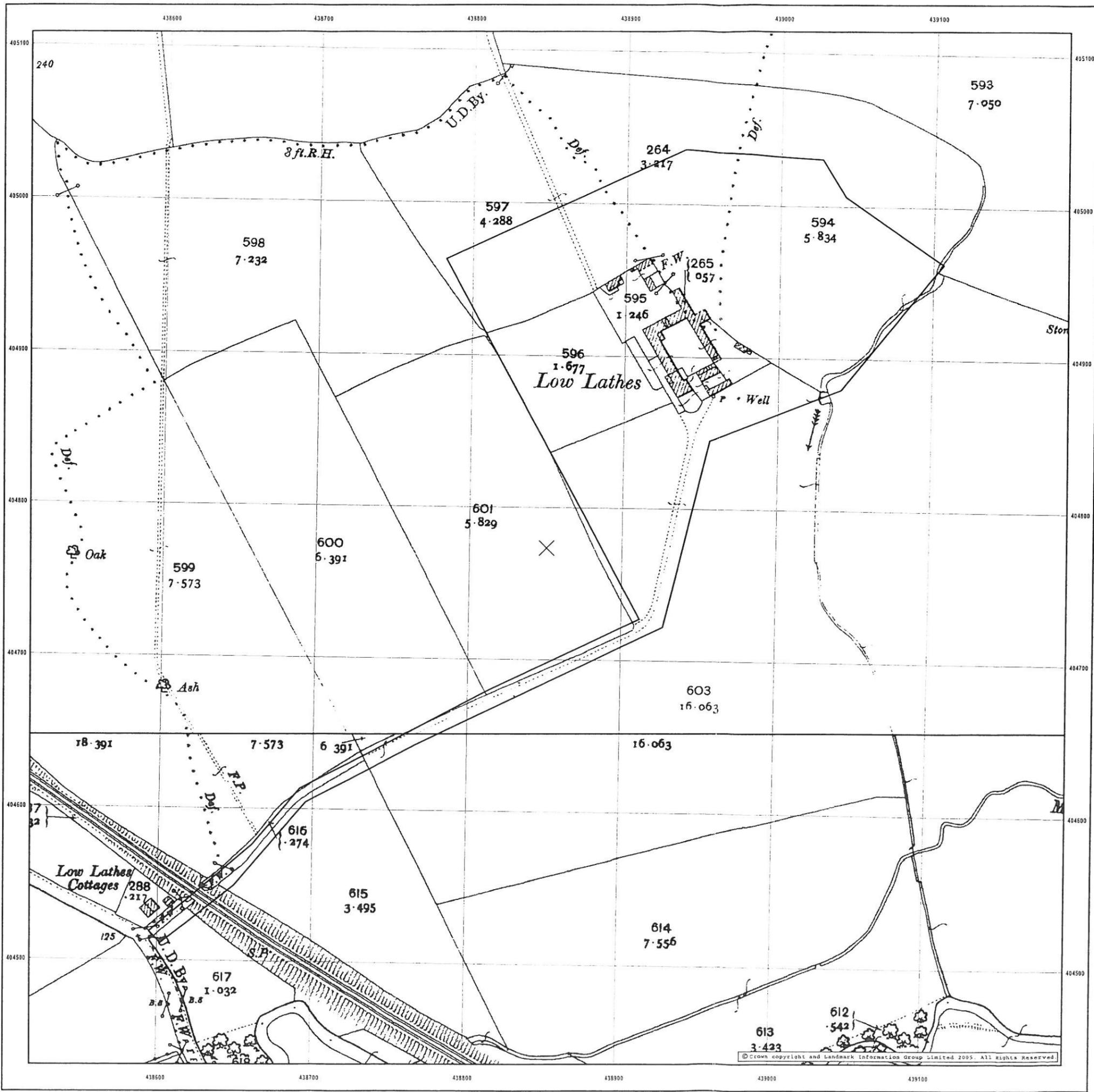
**Ordnance Survey County Series**      1

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 on the right 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.

**YORKSHIRE**  
 Published 1892 to 1893  
 Source map scale - 1:2,500

1893
1892

Date(s) of Publication      1 of 21



**CLIENT DETAILS**      Envirocheck Order No. EC15137661\_1\_1  
(01 Nov 2005 09:31)  
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**SITE DETAILS**      Grid Reference    438850    404770  
 Low Lathes Farm  
 Low Lathes  
 Barnsley  
 S71 5HB

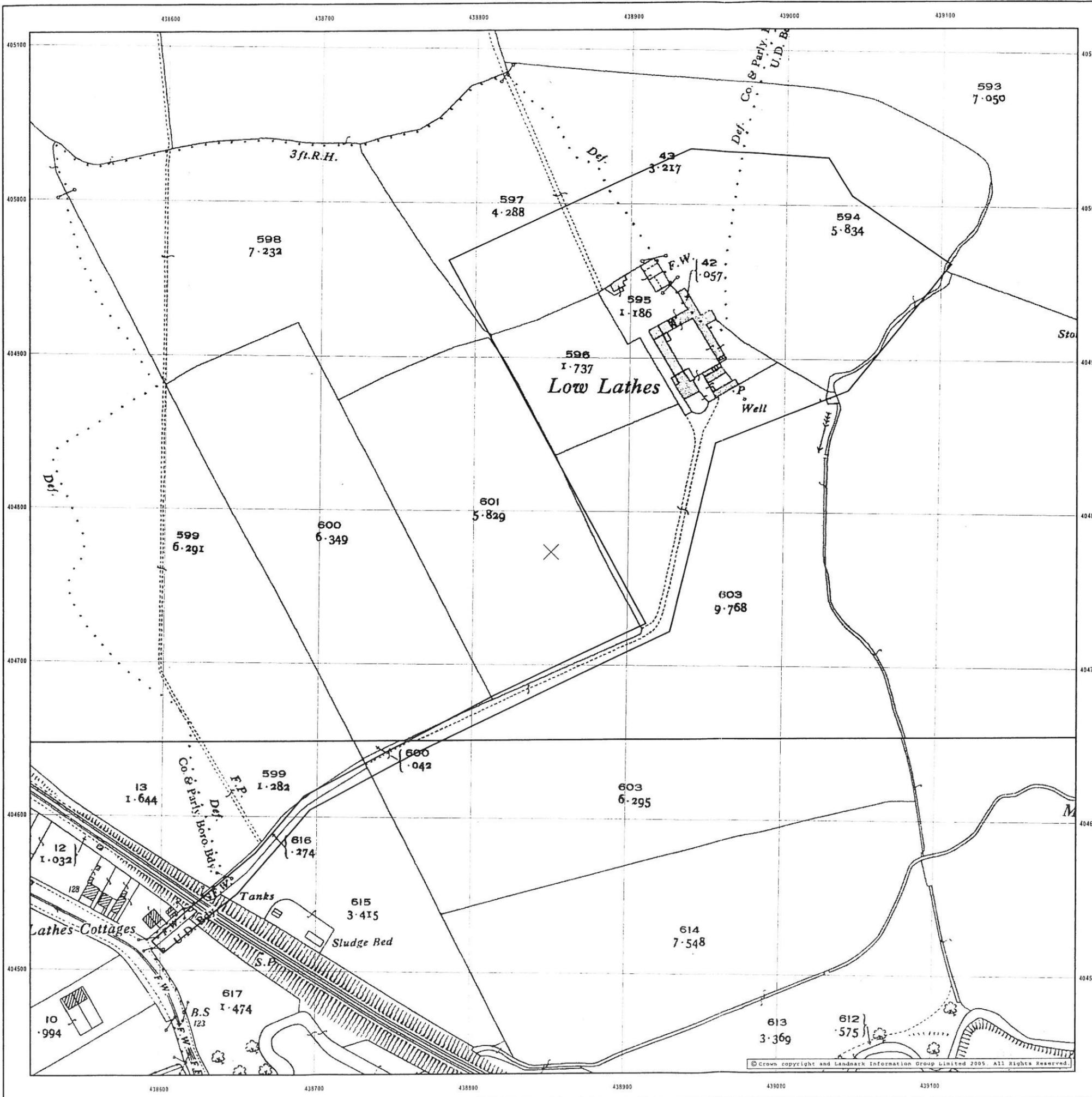
**Historical Map Legend**

Quarry	Sand Pit	Marsh	Reeds
Gravel Pit	Clay Pit	Rough Pasture	Furze
Refuse Heap	Shingle	Osiers	Ford
Railway crossing River or Canal	Railway crossing Road	Level Crossing	
Embankment	Cutting	Road crossing Railway	
Road over single Stream	Road over River or Canal	Arrow denotes flow of Water	

**Ordnance Survey County Series**      2  
 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 was considered to be the cultivated parts of Great Britain. The published date given on the right 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.

**YORKSHIRE**  
 Published 1906  
 Source map scale - 1:2,500

Date(s) of Publication    2 of 21



**CLIENT DETAILS**      Envirocheck Order No. EC15137661\_1\_1  
(05 Nov 2005 09:31)  
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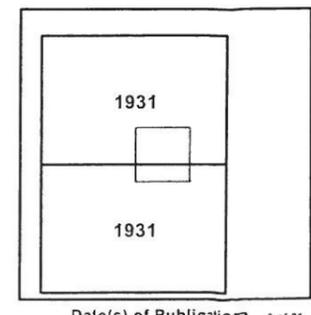
**SITE DETAILS**      Grid Reference    438850    404770  
 Low Lathes Farm  
 Low Lathes  
 Barnsley  
 S71 5HB

**Historical Map Legend**

Quarry	Sand Pit	Marsh	Reeds
Gravel Pit	Clay Pit	Rough Pasture	Furze
Refuse Heap	Shingle	Osiers	Ford
Railway crossing River or Canal	Railway crossing Road	Level Crossing	
Embankment	Cutting	Road crossing Railway	
Road over single Stream	Road over River or Canal	Arrow denotes flow of Water	

**Ordnance Survey County Series**      3  
 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 on the right is often some years later than the surveyed date. Before 1939, 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.

**YORKSHIRE**  
 Published 1931  
 Source map scale - 1:2,500



Date(s) of Publication    3 of 21



**CLIENT DETAILS**      Envirocheck Order No. EC15137661\_1\_1  
(01-Nov-2005 09:31)

Customer Ref: Mr J Wood, 28587  
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St Andrews House 23 Kingfield Road  
Sheffield  
S11 9AS

**SITE DETAILS**      Grid Reference    438850    404770

Low Laithes Farm

Low Laithes  
Barnsley  
S71 5HB

**Historical Map Legend**

Inactive Quarry, Chalk Pit or Clay Pit	Active Quarry, Chalk Pit or Clay Pit	Culvert	
Slope	Slope		
Pylon	Electricity Transmission Line	Direction of Water flow	Coppice, Osier
Marsh	Saltings	Orchard Tree	Reeds
Rough Grassland	Scrub	Heath	Bracken
Coniferous Tree (Surveyed)	Coniferous Tree (Not Surveyed)	Non-coniferous Tree (Surveyed)	Non-coniferous Tree (Not Surveyed)

**Ordnance Survey Plan**      1

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 1895 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given on the right 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.

**ORDNANCE SURVEY PLAN**  
Published 1962  
Source map scale - 1:2,500

1962	1962
1962	1962

Date(s) of Publication    4 of 21

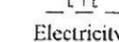
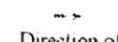
**CLIENT DETAILS** Envirocheck Order No. EC15137661\_1\_1

Customer Ref: Mr J Wood, 28587  
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 St Andrews House 23 Kingfield Road  
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**SITE DETAILS** Grid Reference 438850 404770

Low Laithes Farm  
  
 Low Laithes  
 Barnsley  
 S71 5HB

**Historical Map Legend**

		
Inactive Quarry, Chalk Pit or Clay Pit	Active Quarry, Chalk Pit or Clay Pit	Culvert
		
Slope	Slope	
		
Pylon	Electricity Transmission Line	Direction of Water flow
		
Marsh	Saltings	Orchard Tree
		
Rough Grassland	Scrub	Heath
		
Coniferous Tree (Surveyed)	Coniferous Tree (Not Surveyed)	Non-coniferous Tree (Surveyed)
		
		Non-coniferous Tree (Not Surveyed)

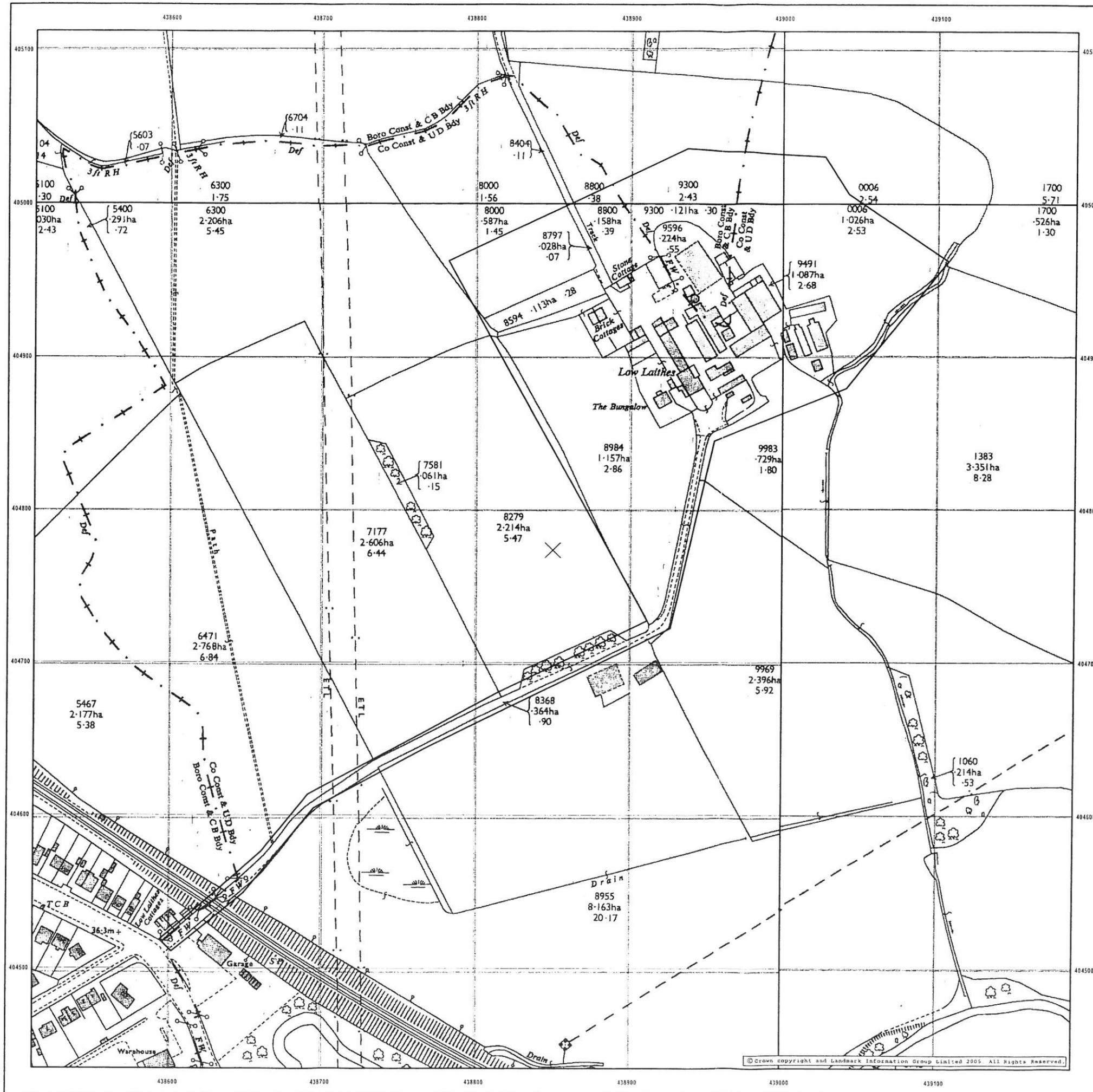
**Ordnance Survey Plan** 2

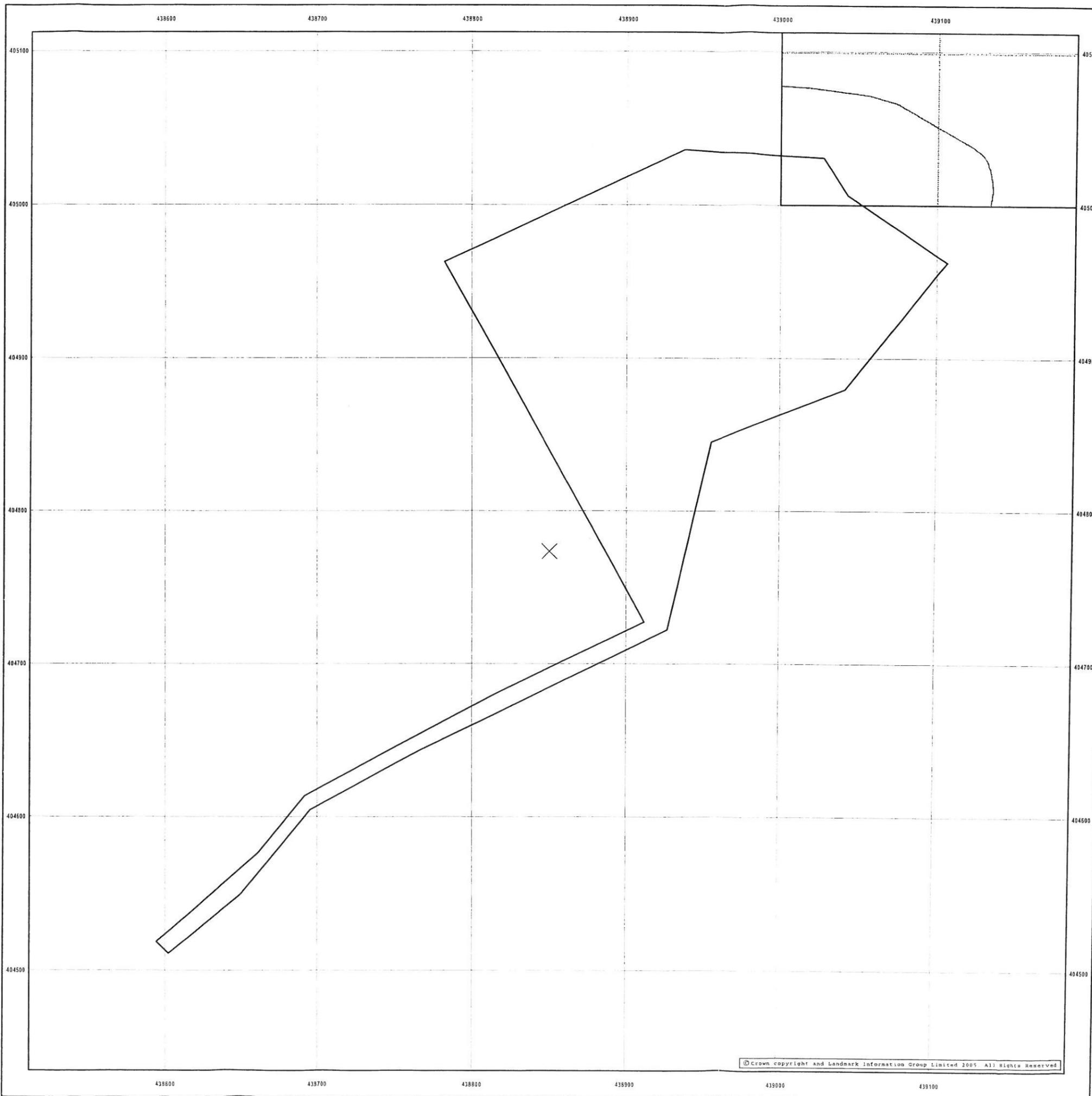
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain.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

**ORDNANCE SURVEY PLAN**  
 Published 1968 to 1970  
 Source map scale - 1:2,500

1968	1968
1970	1970

Date(s) of Publication 5 of 21





**CLIENT DETAILS**      Envirocheck Order No. EC15137661\_1\_1  
(05 Nov 2005 09:33)

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 Eastwood & Partners  
 St Andrews House 23 Kingfield Road  
 Sheffield  
 S11 9AS

**SITE DETAILS**      Grid Reference    438850    404770

Low Laithes Farm

Low Laithes  
 Barnsley  
 S71 5HB

**Historical Map Legend**

Slope	Slope
Bench Mark	Wells
Direction of Water flow	Pylon
Buildings with Building Seed	Electricity Transmission Line

**Administrative Boundaries**

- • • • • Civil parish/community boundary
- — — District boundary
- • — County boundary
- Boundary post/stone
- ^ Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

**Large-Scale National Grid Data** 1

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's Survey of Information on Microfilm) in 1992, and continued to be produced until 1993. 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.

**ORDNANCE SURVEY PLAN**  
 Published 1993  
 Source map scale - 1:2,500

1993

Date(s) of Publication    9 of 21



**CLIENT DETAILS**      Envirocheck Order No. **EC15137661\_1\_1**  
(03 Nov 2005 09 32)

Customer Ref: Mr J Wood, 28587  
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St Andrews House 23 Kingfield Road  
Sheffield  
S11 9AS

**SITE DETAILS**      Grid Reference    **438850    404770**

Low Laithes Farm

Low Laithes  
Barnsley  
S71 5HB

Historical Map Legend

Inactive Quarry, Chalk Pit or Clay Pit	Active Quarry, Chalk Pit or Clay Pit	Culvert	
Slope	Slope		
Pylon	Electricity Transmission Line	Direction of Water flow	Coppice, Osier
Marsh	Saltings	Orchard Tree	Reeds
Rough Grassland	Scrub	Heath	Bracken
Coniferous Tree (Surveyed)	Coniferous Tree (Not Surveyed)	Non-coniferous Tree (Surveyed)	Non-coniferous Tree (Not Surveyed)

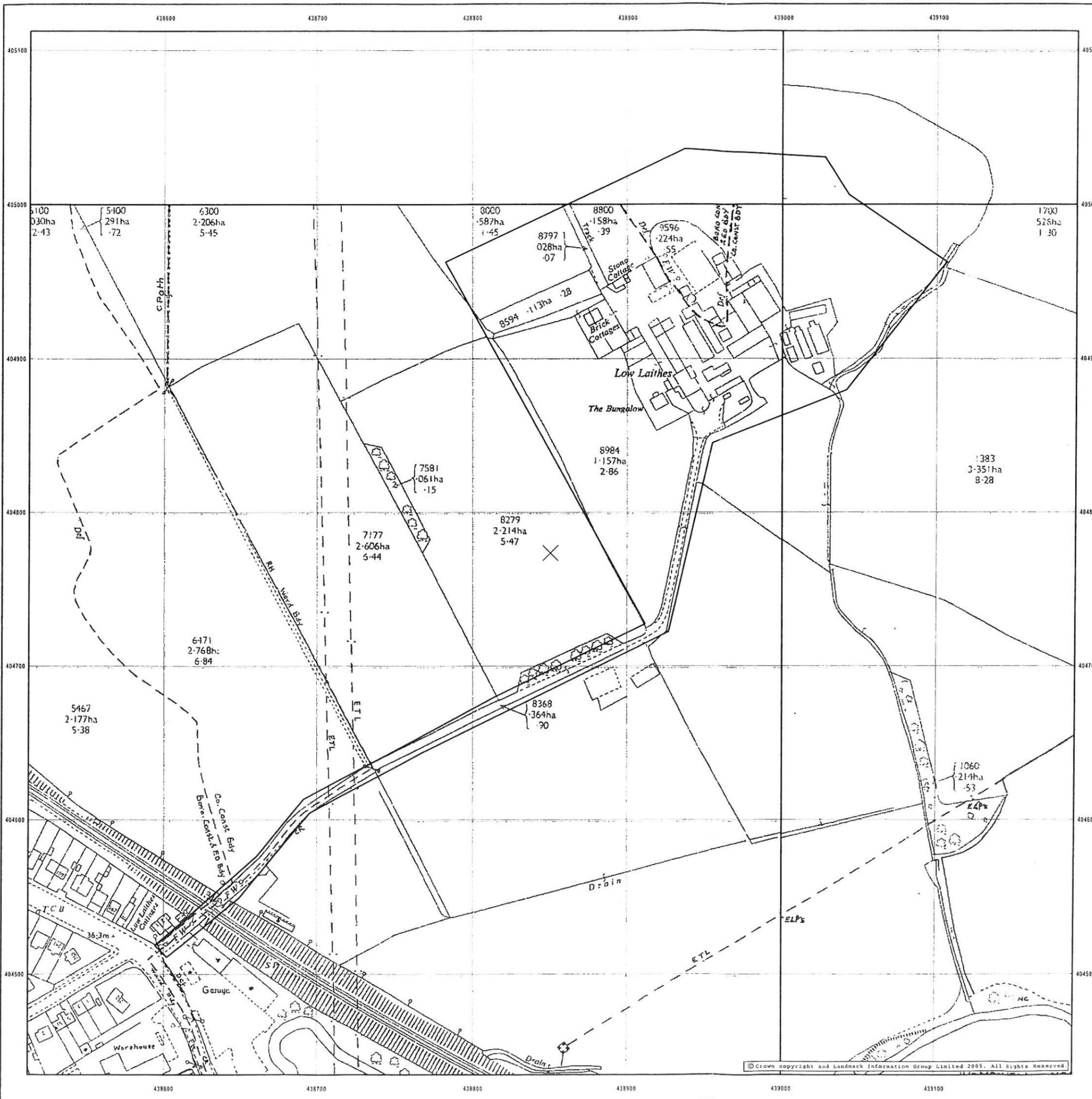
**Ordnance Survey Plan** 1

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 on the right 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.

**ORDNANCE SURVEY PLAN**  
Published 1982  
Source map scale - 1:1,250

1982	
1982	1982

Date(s) of Publication    6 of 21



**CLIENT DETAILS**      Envirocheck Order No. EC15137661\_1\_1  
(01 Nov 2005 09:33)

Customer Ref: Mr J Wood.28587  
Eastwood & Partners  
St Andrews House 23 Kingfield Road  
Sheffield  
S11 9AS

**SITE DETAILS**      Grid Reference    438850    404770

Low Laithes Farm

Low Laithes  
Barnsley  
S71 5HB

**Historical Map Legend**

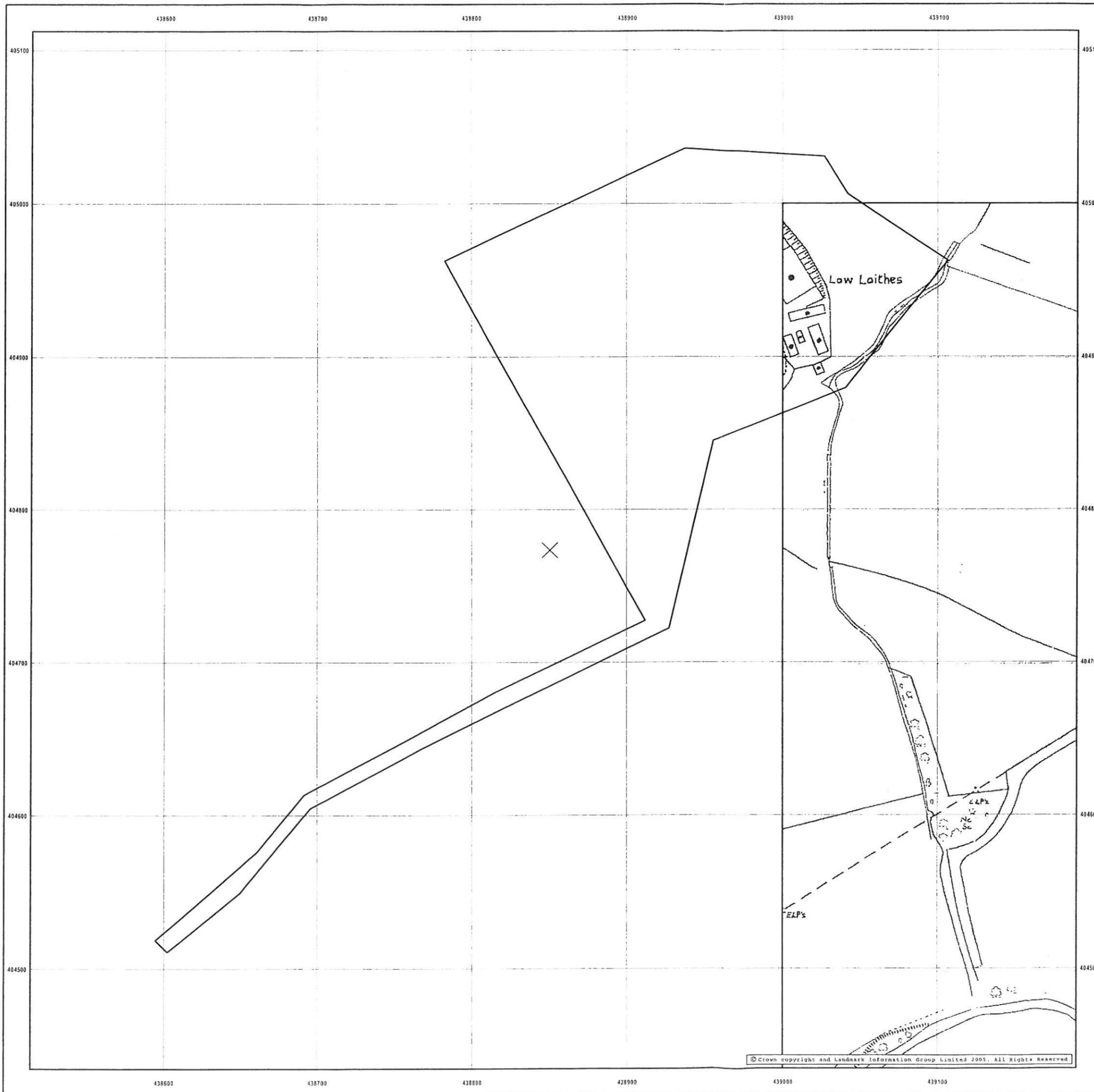
Inactive Quarry, Chalk Pit or Clay Pit	Active Quarry, Chalk Pit or Clay Pit		Culvert
Slope	Slope		
Pylon	Electricity Transmission Line	Direction of Water Flow	Coppice, Osier
Marsh	Saltings	Orchard Tree	Reeds
Rough Grassland	Scrub	Heath	Bracken
Coniferous Tree (Surveyed)	Coniferous Tree (Not Surveyed)	Non-coniferous Tree (Surveyed)	Non-coniferous Tree (Not Surveyed)

**Additional SIMs**      1

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 1991, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

**ORDNANCE SURVEY PLAN**  
Published 1980 to 1983  
Source map scale - 1:2,500

Date(s) of Publication: 7 of 21



**CLIENT DETAILS**      Envirocheck Order No. EC15137661\_1\_1  
(03-MAY-2005 09:32)

Customer Ref: Mr J Wood, 28587  
Eastwood & Partners  
St Andrews House 23 Kingfield Road  
Sheffield  
S11 9AS

**SITE DETAILS**      Grid Reference    438850    404770

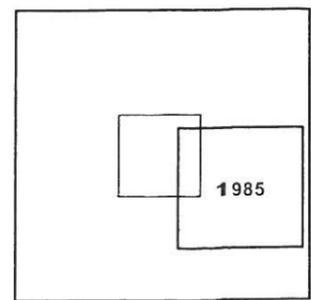
Low Laithes Farm  
  
Low Laithes  
Barnsley  
S71 5HB

**Historical Map Legend**

Inactive Quarry	Chalk Pit or Clay Pit	Active Quarry	Chalk Pit or Clay Pit	Culvert
Slope	Slope	Slope	Slope	Slope
Pylon	Electricity Transmission Line	Direction of Water flow	Coppice, Osier	
Marsh	Saltings	Orchard Tree	Reeds	
Rough Grassland	Scrub	Heath	Bracken	
Coniferous Tree (Surveyed)	Coniferous Tree (Not Surveyed)	Non-coniferous Tree (Surveyed)	Non-coniferous Tree (Not Surveyed)	

**Additional SIMs** 2  
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 1991, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

**ORDNANCE SURVEY PLAN**  
Published 1985  
Source map scale - 1:2,500



Date(s) of Publication    8 of 21



**CLIENT DETAILS**      Envirocheck Order No. EC15137661\_1\_1  
(03 Nov 2005 09:33)

Customer Ref: Mr J Wood, 28587  
Eastwood & Partners  
St Andrews House 23 Kingfield Road  
Sheffield  
S11 9AS

**SITE DETAILS**      Grid Reference    438850    404770

Low Laithes Farm  
  
Low Laithes  
Barnsley  
S71 5HB

**Historical Map Legend**

- |  |                         |  |                               |
|--|-------------------------|--|-------------------------------|
|  | Slope                   |  | Slope                         |
|  | Bench Mark              |  | Wells                         |
|  | Direction of Water flow |  | Buildings with Building Seed  |
|  | Pylon                   |  | Electricity Transmission Line |

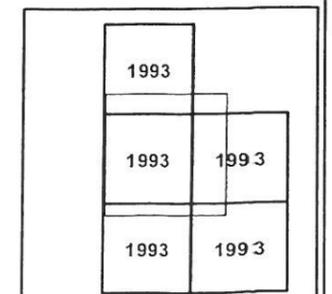
**Administrative Boundaries**

- Civil parish/community boundary
- District boundary
- County boundary
- Boundary post/stone
- Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

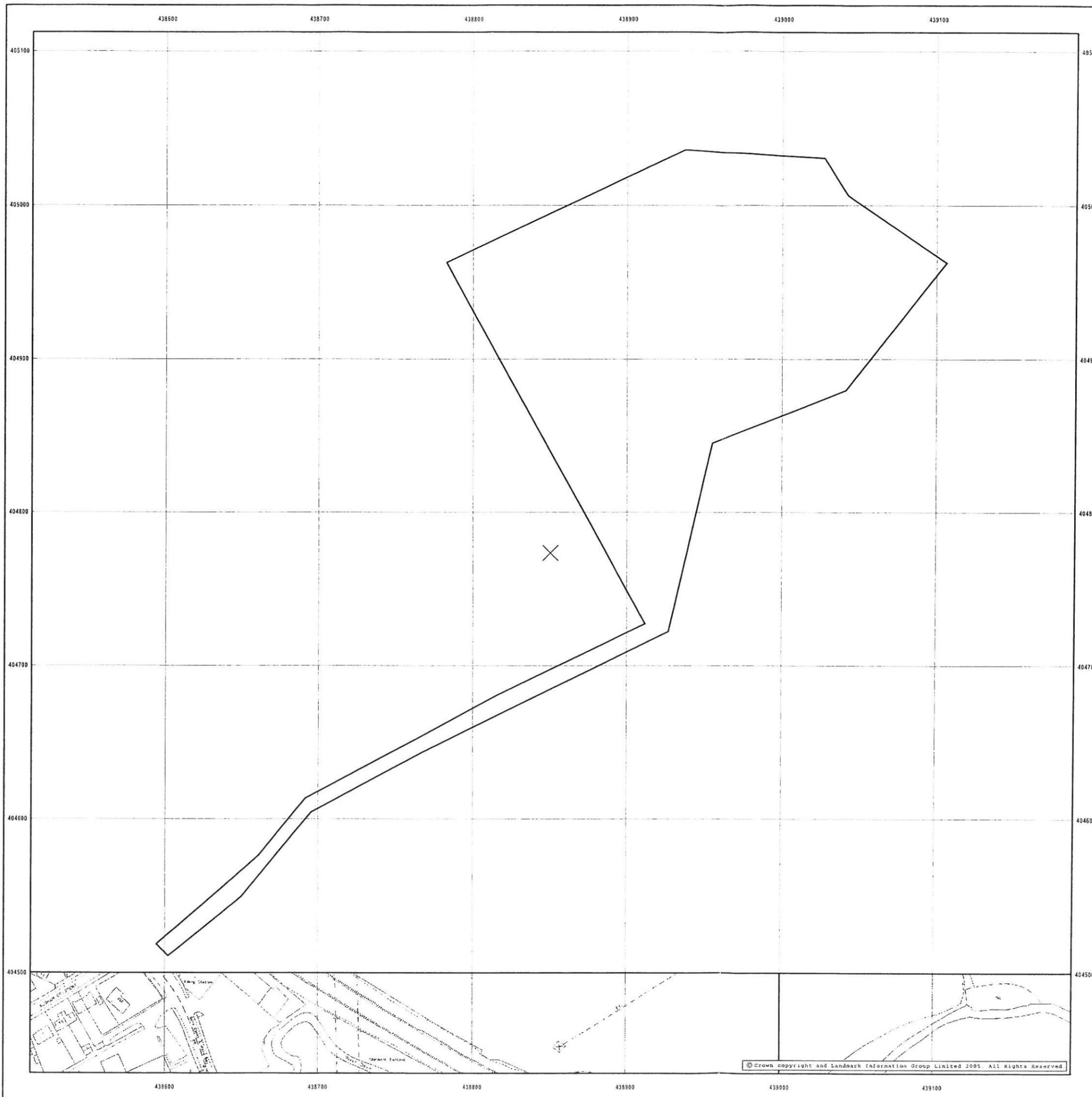
**Large-Scale National Grid Data**      1

"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.

**ORDNANCE SURVEY PLAN**  
Published 1993  
Source map scale - 1:1,250



Date(s) of Publication    10 of 21



**CLIENT DETAILS**      Envirocheck Order No. EC15137661\_1\_1  
103 Nov 2005 00 331

Customer Ref: Mr J Wood, 28587  
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 St Andrews House 23 Kingfield Road  
 Sheffield  
 S11 9AS

**SITE DETAILS**      Grid Reference    438850    404770

Low Laithes Farm

Low Laithes  
 Barnsley  
 S71 5HB

**Historical Map Legend**

	Slope		Slope
	Bench Mark		Wells
	Direction of Water flow		Pylon
			Electricity Transmission Line

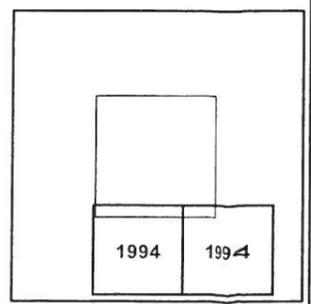
**Administrative Boundaries**

- Civil parish/community boundary
- District boundary
- County boundary
- Boundary post/stone
- Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

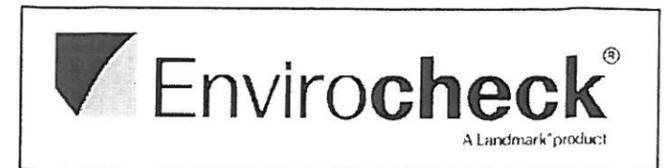
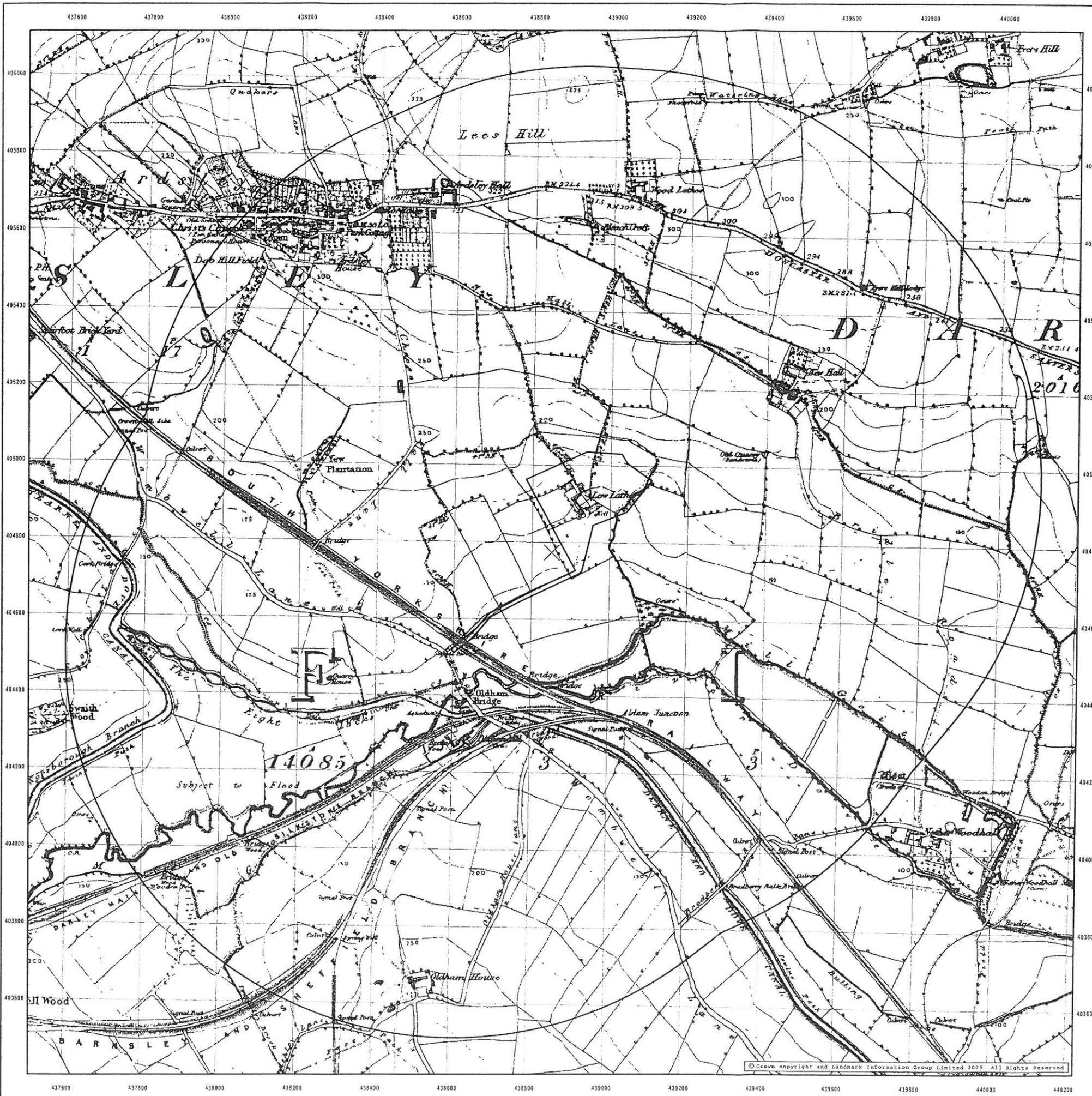
**Large-Scale National Grid Data**      2

'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.

**ORDNANCE SURVEY PLAN**  
 Published 1994  
 Source map scale - 1:1,250



Date(s) of Publication    11 of 21



**CLIENT DETAILS**      Envirocheck Order No. EC15137661\_1\_1  
101 NOV 2005 09:34

Customer Ref: Mr J Wood, 28587  
 Eastwood & Partners  
 St Andrews House 23 Kingfield Road  
 Sheffield  
 S11 9AS

**SITE DETAILS**      Grid Reference    438850    404770

Low Laithes Farm

Low Laithes  
 Barnsley  
 S71 5HB

**Historical Map Legend**

Quarry	Shingle	Railway over Road	Road over Railway
Gravel Pit	Sand Pit	Level Crossing	Railway over River
Other Pits		Road over Stream	Road over Stream
Rough Pasture	Furze	Road over River or Canal	Road over River or Canal
Marsh	Reeds	Sunken Road	Sunken Road
Osiers	Instrumental Contour	Raised Road	Raised Road
Arrow denotes flow of Water	Sketched Contour		

**Ordnance Survey County Series**      1

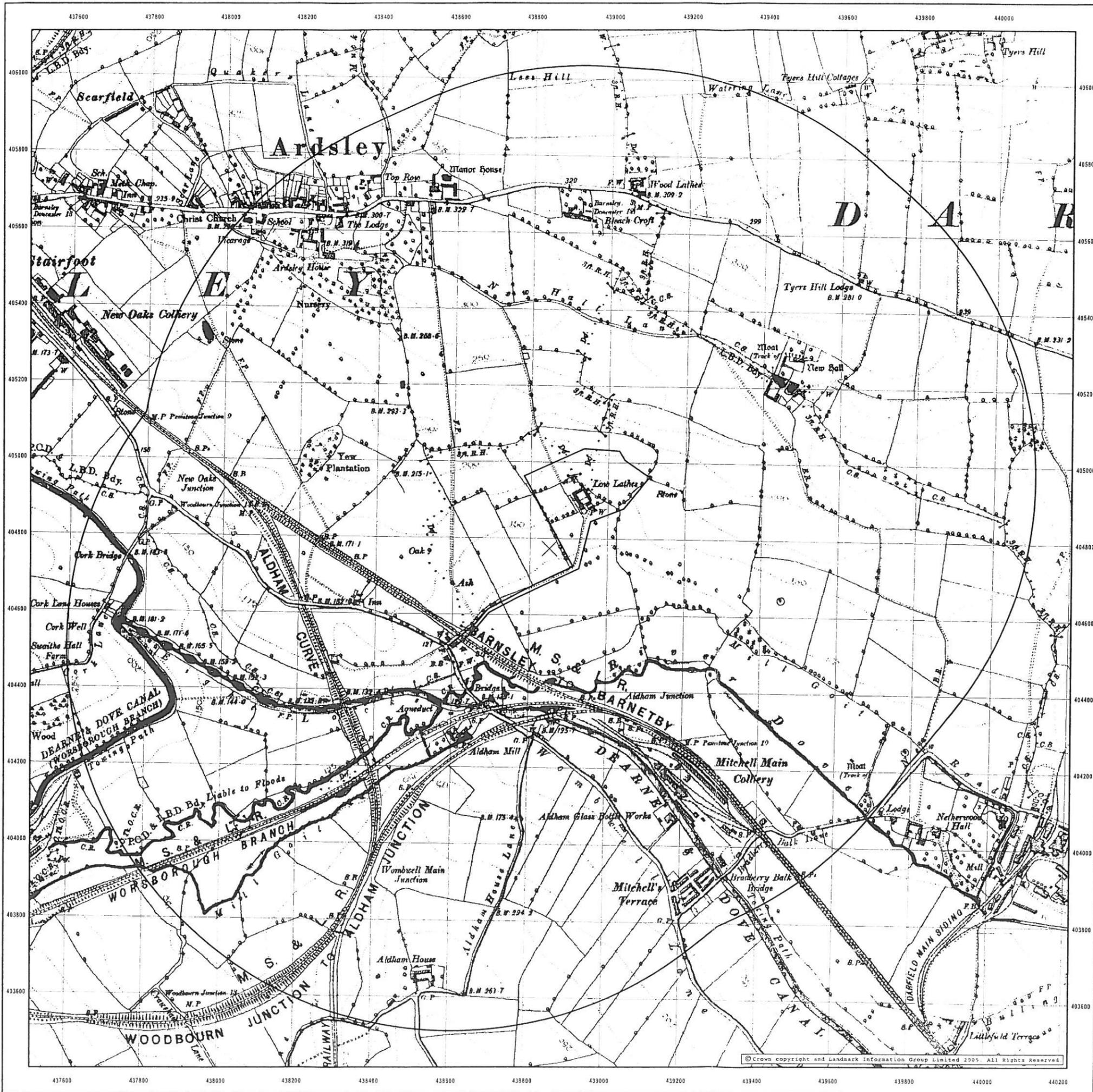
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given on the right therefore is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

**YORKSHIRE**  
 Published 1854  
 Source map scale - 1:10,560

1854

Date(s) of Publication    12 of 21



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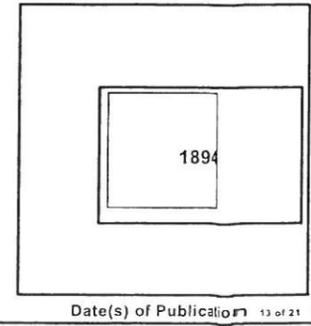
**SITE DETAILS**      Grid Reference    438850    404770  
 Low Lathes Farm  
 Low Lathes  
 Barnsley  
 S71 5HB

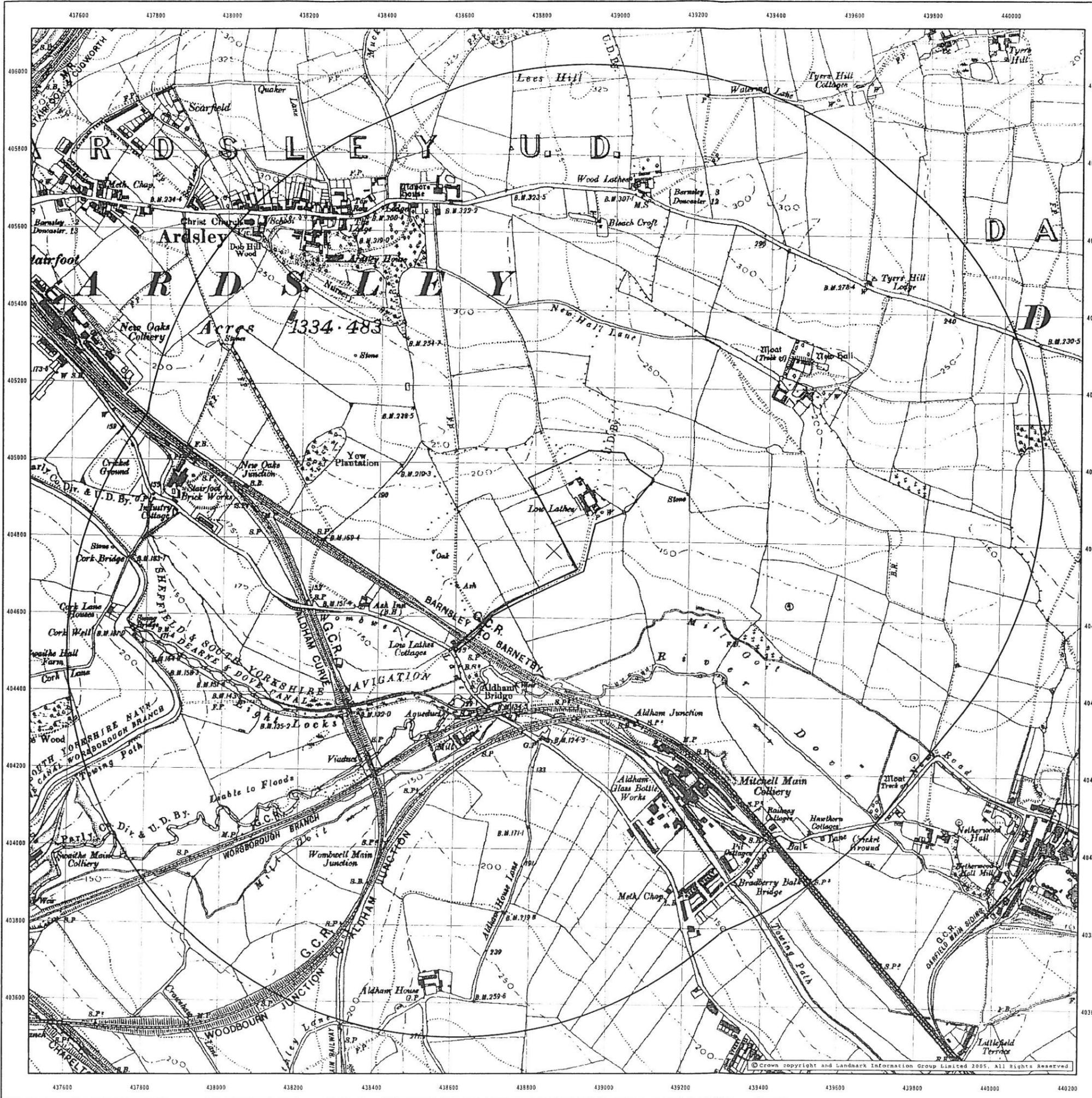
**Historical Map Legend**

Quarry	Shingle	Railway over Road	Road over Railway
Gravel Pit	Sand Pit	Level Crossing	Railway over River
Other Pits		Road over Stream	Road over Stream
Rough Pasture	Furze	Road over River or Canal	Road over River or Canal
Marsh	Reeds	Sunken Road	Sunken Road
Osiers	Instrumental Contour	Raised Road	Raised Road
Arrow denotes flow of Water	Sketched Contour		

**Ordnance Survey County Series**      2  
 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 on the right 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.  
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**YORKSHIRE**  
 Published 1894  
 Source map scale - 1:10,560





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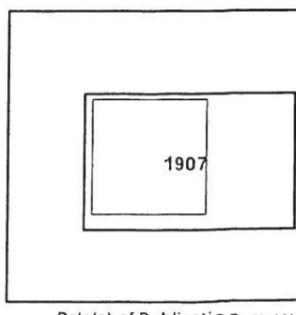
**SITE DETAILS** Grid Reference 438850 404770  
 Low Laithes Farm  
 Low Laithes  
 Barnsley  
 S71 5HB

**Historical Map Legend**

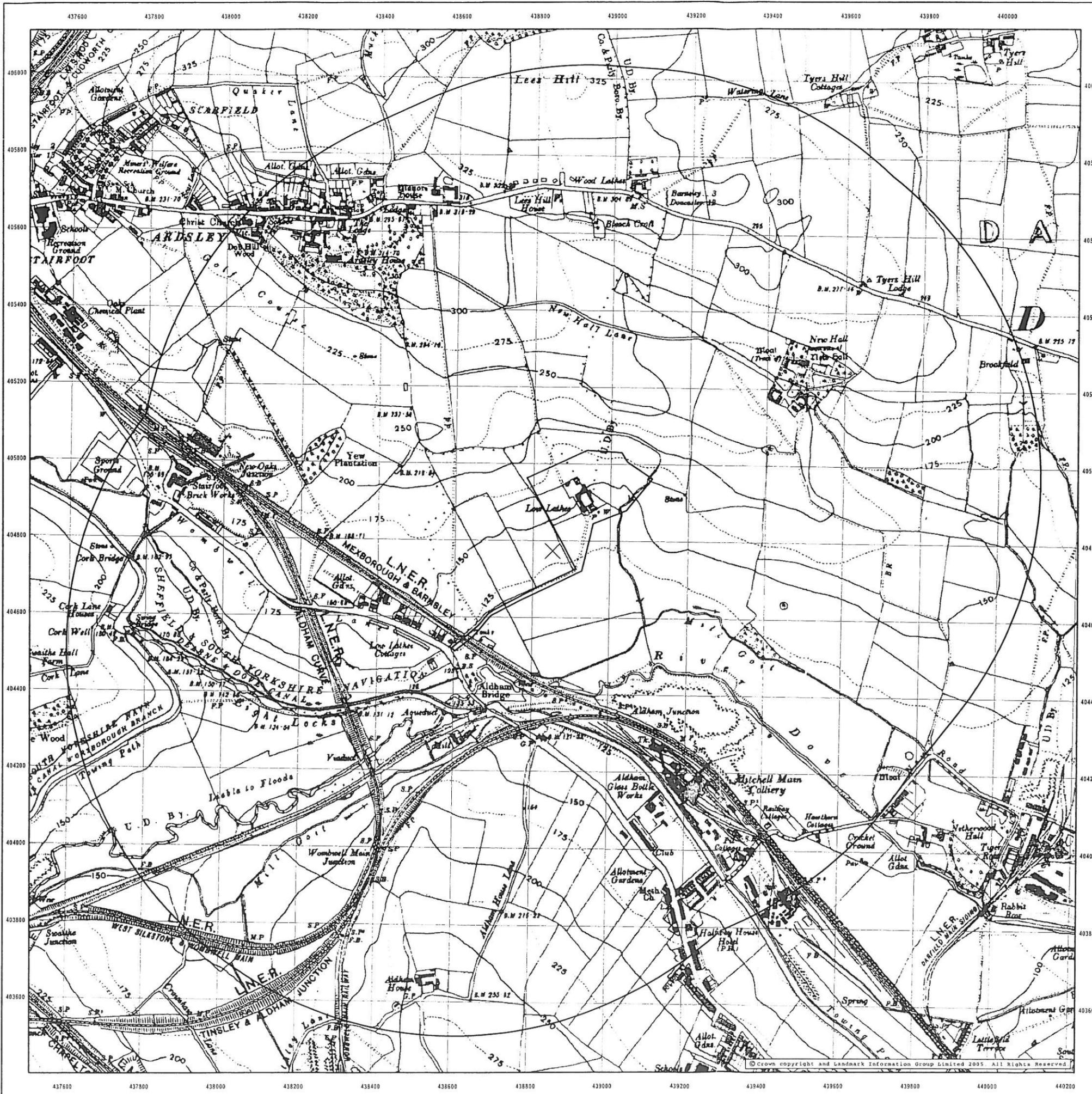
Quarry	Shingle	Railway over Road	Road over Railway
Gravel Pit	Sand Pit	Level Crossing	Railway over River
Other Pits		Road over Stream	Road over Stream
Rough Pasture	Furze	Road over River or Canal	Sunken Road
Marsh	Reeds	Raised Road	Instrumental Contour
Osiers	Sketched Contour	Arrow denotes flow of Water	

**Ordnance Survey County Series** 3  
 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 on the right 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.  
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**YORKSHIRE**  
 Published 1907  
 Source map scale - 1:10,560



Date(s) of Publication 14 of 21





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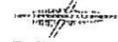
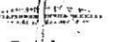
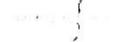
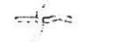
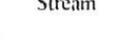
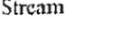
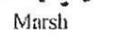
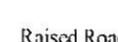
**SITE DETAILS**      Grid Reference    438850    404770

Low Lathes Farm

Low Lathes  
 Barnsley  
 S71 5HB

---

**Historical Map Legend**

 Quarry	 Shingle	 Railway over Road	 Road over Railway
 Gravel Pit	 Sand Pit	 Level Crossing	 Railway over River
 Other Pits		 Road over Stream	 Road over Stream
 Rough Pasture	 Furze	 Road over River or Canal	 Road over River or Canal
 Marsh	 Reeds	 Sunken Road	 Sunken Road
 Osiers	 Instrumental Contour	 Raised Road	 Raised Road
 Arrow denotes flow of Water	 Sketched Contour		

---

**Ordnance Survey County Series**      4

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 data given on the right 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.

**YORKSHIRE**  
 Published 1938  
 Source map scale - 1:10,560

1938

Date(s) of Publication 15 of 21

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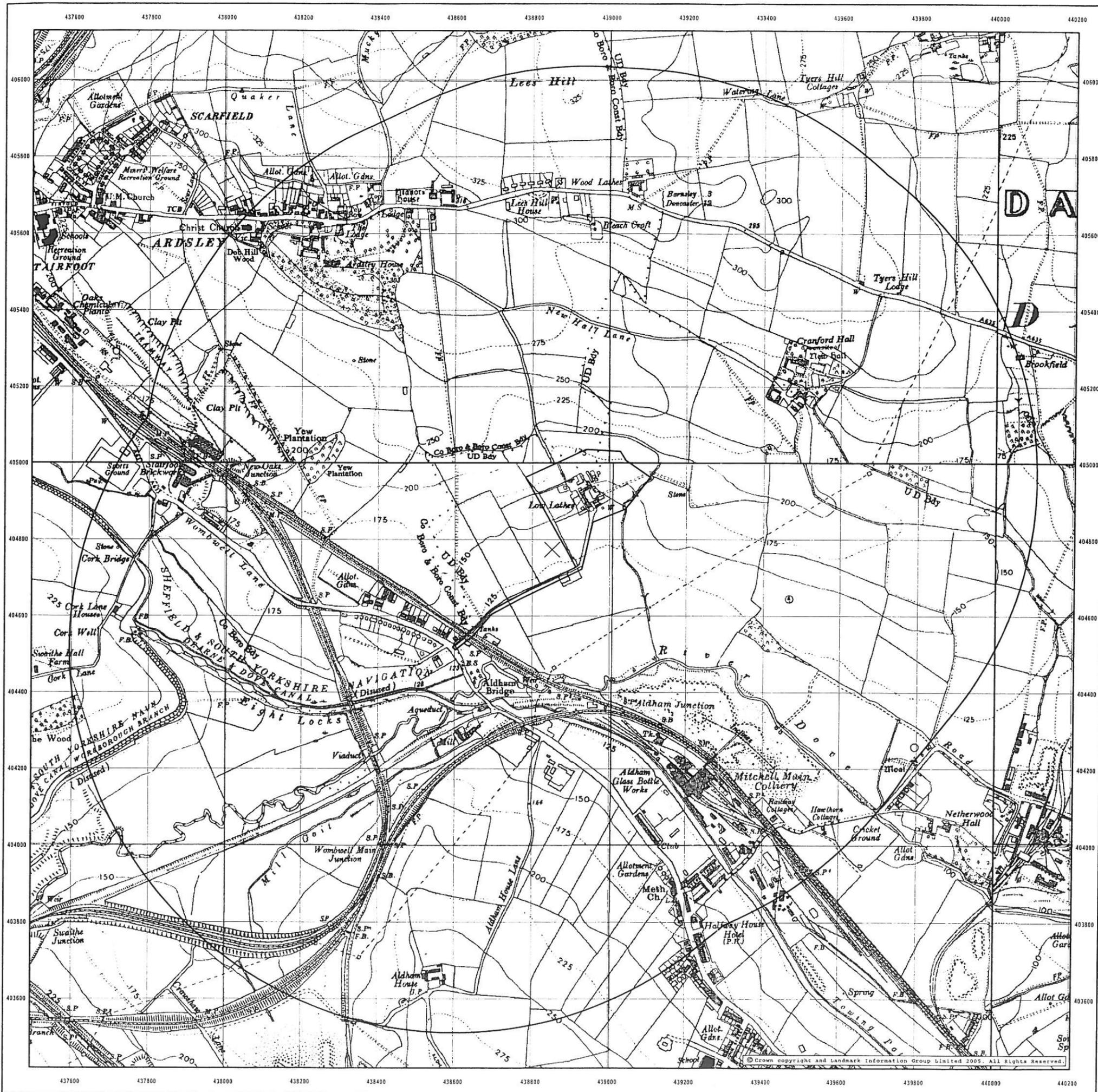


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(03-Nov-2005 09:35)  
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 St Andrews House 23 Kingfield Road  
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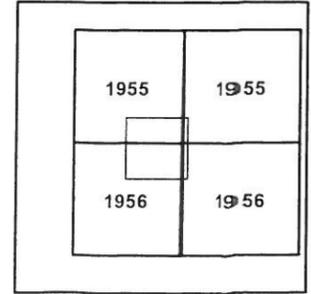
**SITE DETAILS**      Grid Reference    438850    404770  
 Low Laithes Farm  
 Low Laithes  
 Barnsley  
 S71 5HB

**Historical Map Legend**

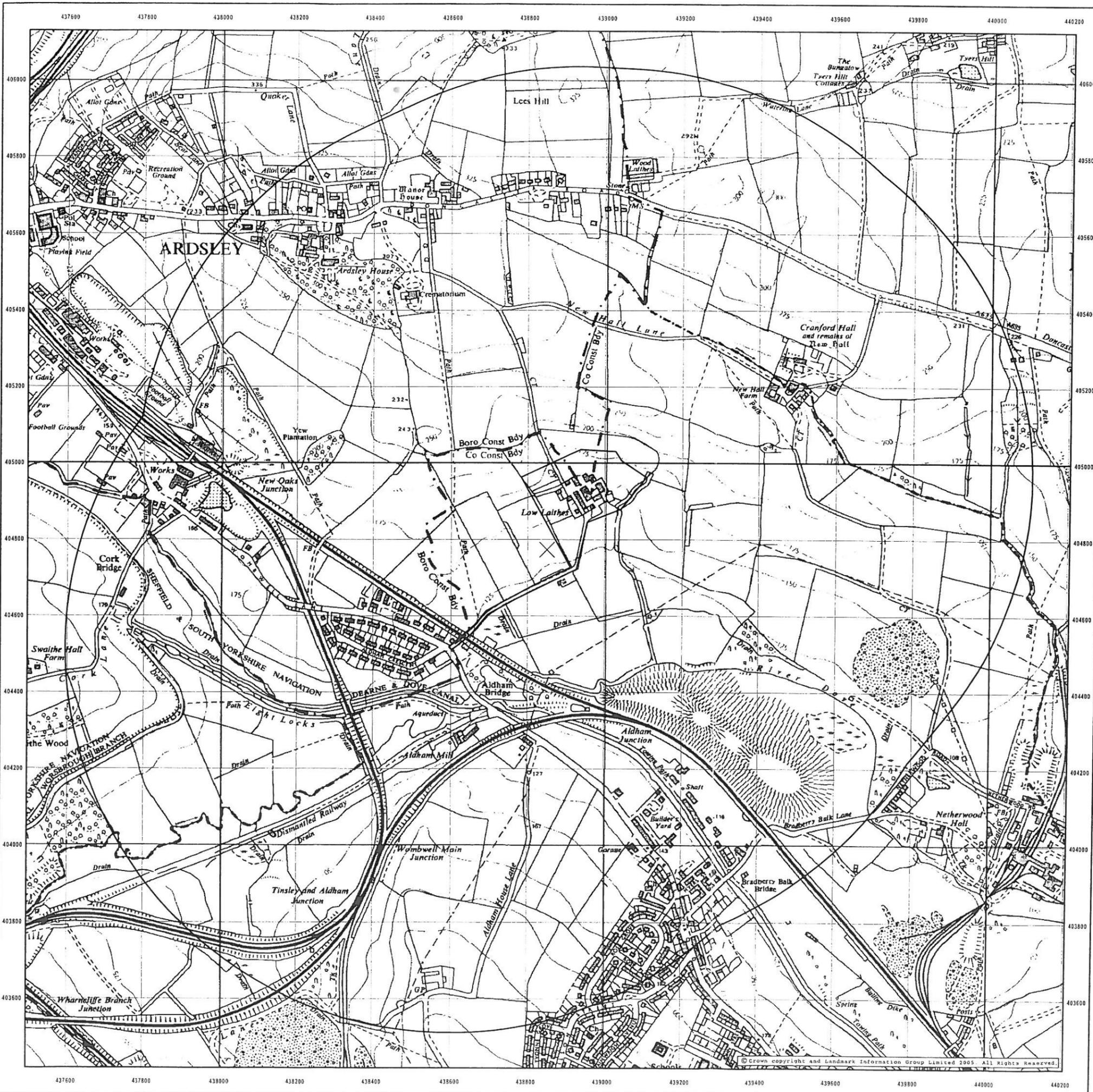
	Chalk Pit, Clay Pit, or Quarry		Non-coniferous Trees		Bracken
	Gravel Pit		Coniferous Trees		Heath
	Sand Pit		Scrub		Rough Grassland
	Disused Pit or Quarry		Lake, Loch or Pond		Reeds
	Refuse or Slag Heap		Pylon		Saltings
	Direction of Flow of Water		Electricity Transmission Line		Marsh
	Cutting		Shingle		Sand
	Road Under		Road Over		Level Crossing
	Foot Bridge		Standard Gauge		Multiple Track
	Standard Gauge		Single Track		Siding, Tramway or Mineral Line
	Narrow Gauge				

**Ordnance Survey Plan**      1  
 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 on the right 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.  
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**ORDNANCE SURVEY PLAN**  
 Published 1955 to 1956  
 Source map scale - 1:10,560



Date(s) of Publication    16 of 21



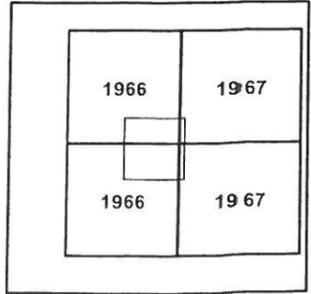
**CLIENT DETAILS**      Envirocheck Order No. EC15137661\_1\_1  
(01 Nov 2005 09:35)  
 Customer Ref: Mr J Wood, 28587  
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 St Andrews House 23 Kingfield Road  
 Sheffield  
 S11 9AS

**SITE DETAILS**      Grid Reference    438850    404770  
 Low Lathes Farm  
 Low Lathes  
 Barnsley  
 S71 5HB

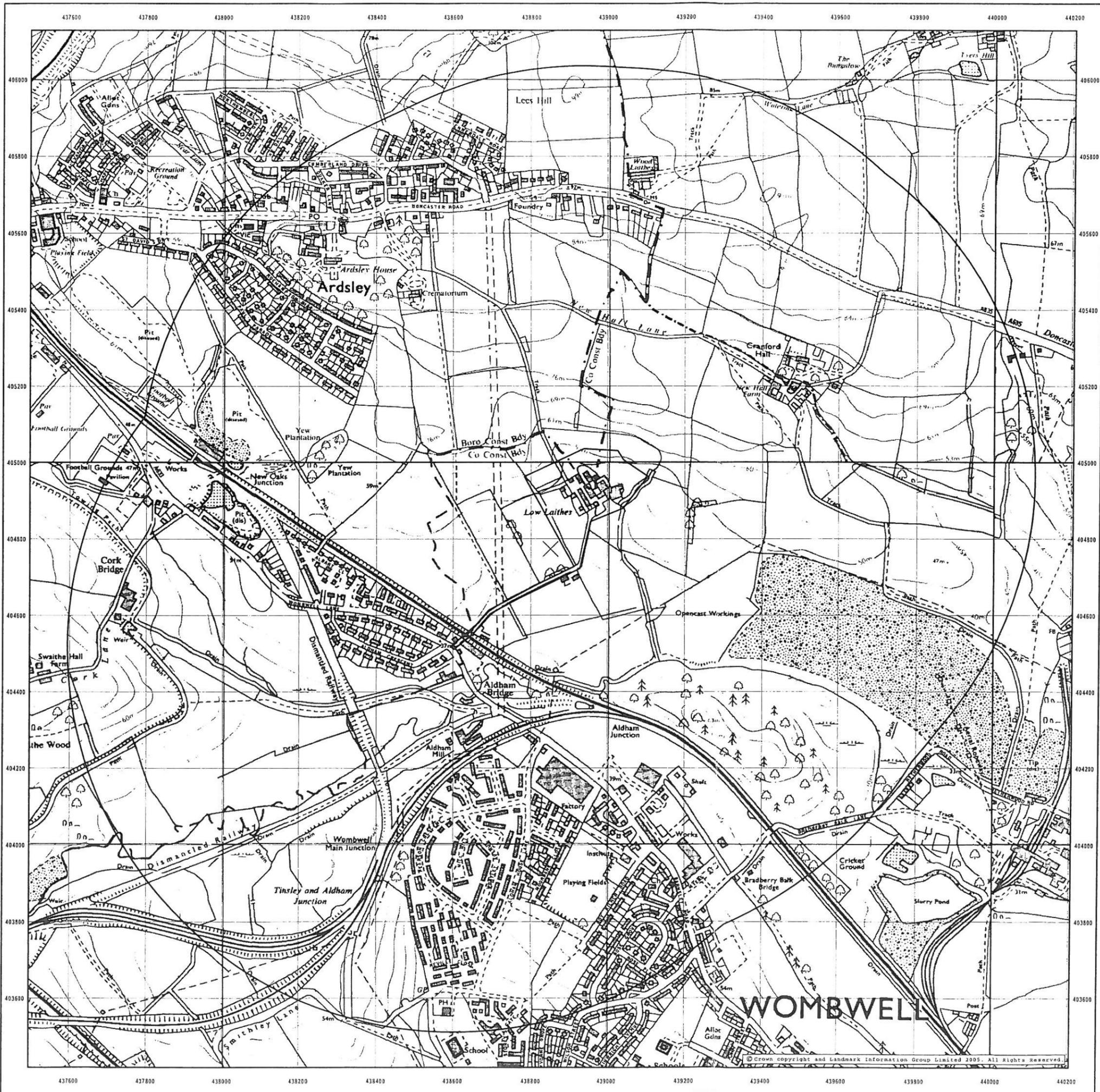
**Historical Map Legend**


**Ordnance Survey Plan**      2  
 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 on the right 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.  
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**ORDNANCE SURVEY PLAN**  
 Published 1966 to 1967  
 Source map scale - 1:10,560



Date(s) of Publication 17 of 21



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Sheffield  
S11 9AS

**SITE DETAILS**      Grid Reference    **438850    404770**

Low Laithes Farm

Low Laithes  
Barnsley  
S71 5HB

**Historical Map Legend**

Chalk Pit, Clay Pit, or Quarry	Non-coniferous Trees	Bracken
Gravel Pit	Coniferous Trees	Heath
Sand Pit	Scrub	Rough Grassland
Disused Pit or Quarry	Lake, Loch or Pond	Reeds
Refuse or Slag Heap	Fylen	Electricity Transmission Line
Direction of Flow of Water		Marsh
Cutting	Shingle	Standard Gauge
Road Under	Road Over	Multiple Track
Level Crossing	Foot Bridge	Standard Gauge Single Track
Siding, Tramway or Mineral Line	Narrow Gauge	

**Ordnance Survey Plan**      1

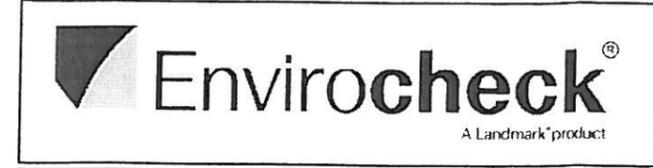
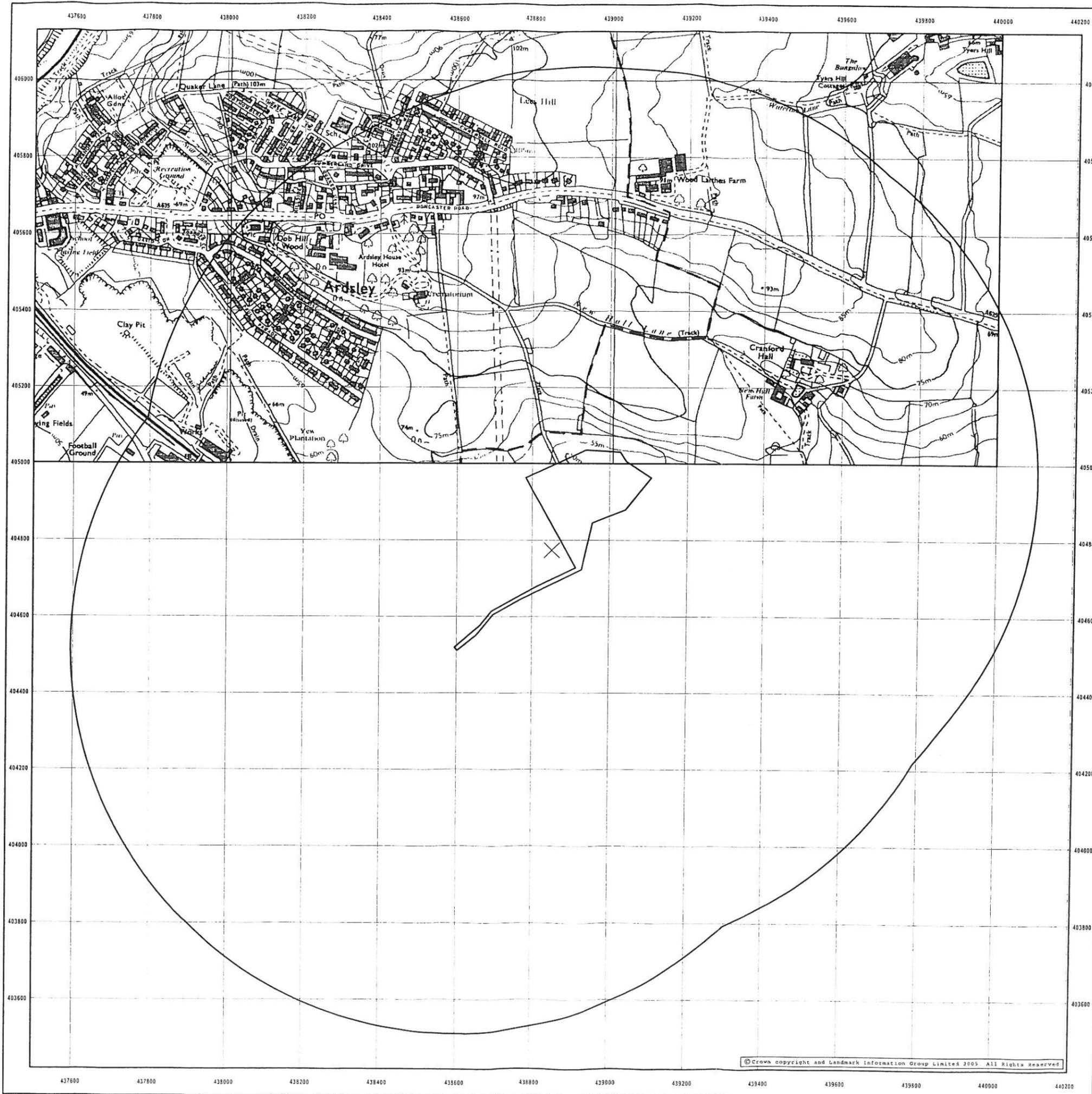
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**ORDNANCE SURVEY PLAN**  
Published 1974 to 1983  
Source map scale - 1:10,000

1974	1983
1980	1980

Date(s) of Publication 14 of 21



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 S11 9AS

**SITE DETAILS**      Grid Reference 438850 404770  
 Low Lathes Farm  
 Low Lathes  
 Barnsley  
 S71 5HB

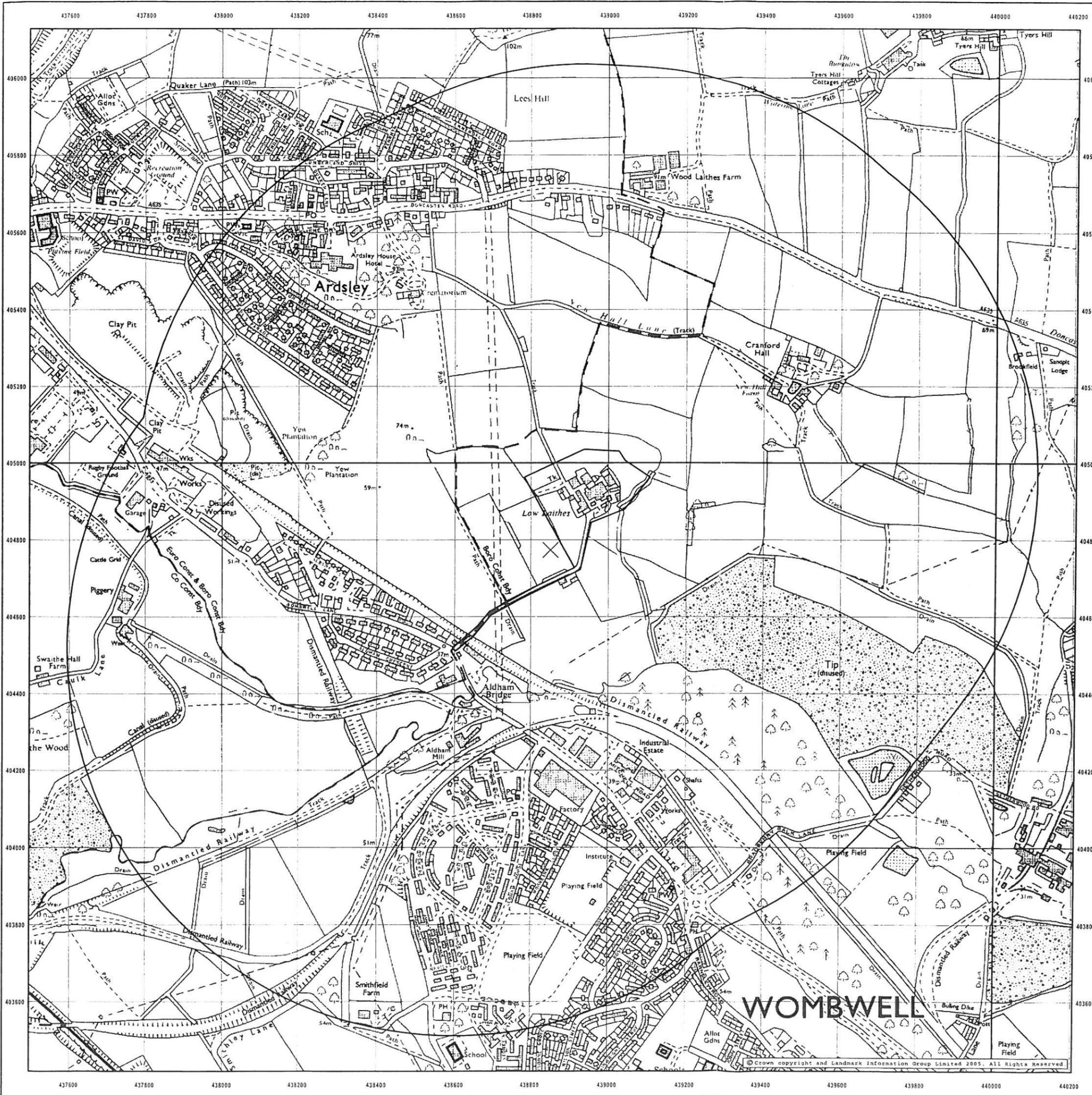
Historical Map Legend		
	Chalk Pit, Clay Pit, or Quarry	
	Gravel Pit	
	Sand Pit	
	Disused Pit or Quarry	
	Refuse or Slag Heap	
	Direction of Flow of Water	
	Cutting	
	Road Under	
	Road Over	
	Level Crossing	
	Foot Bridge	
	Bracken	
	Heath	
	Rough Grassland	
	Reeds	
	Saltings	
	Marsh	

**Ordnance Survey Plan** 2  
 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 on the right 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.  
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**ORDNANCE SURVEY PLAN**  
 Published 1984  
 Source map scale - 1:10,000

1984

Date(s) of Publication 19 of 21





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 Sheffield  
 S11 9AS

---

**SITE DETAILS**      Grid Reference    438850    404770

Low Laithes Farm

Low Laithes  
 Barnsley  
 S71 5HB

---

**Historical Map Legend**

Chalk Pit	Non-coniferous Trees	Bracken
Clay Pit or Quarry	Comiferous Trees	Heath
Gravel Pit	Scrub	Rough Grassland
Sand Pit	Lake, Loch or Pond	Reeds
Disused Pit or Quarry	Pyten	Saltings
Refuse or Slag Heap	Electricity Transmission Line	Marsh
<b>Direction of Flow of Water</b>		
Shingle	Sand	
Cutting	Embankment	Standard Gauge Multiple Track
Road Under	Road Over	Standard Gauge Single Track
Level Crossing	Foot Bridge	Siding, Tramway or Mineral Line
		Narrow Gauge

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**Ordnance Survey Plan**      3

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 on the right 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.

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**ORDNANCE SURVEY PLAN**  
 Published 1989 to 1993  
 Source map scale - 1:10,000

1993	1989
1989	1989

Date(s) of Publication    20 of 21

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Ordnance Survey

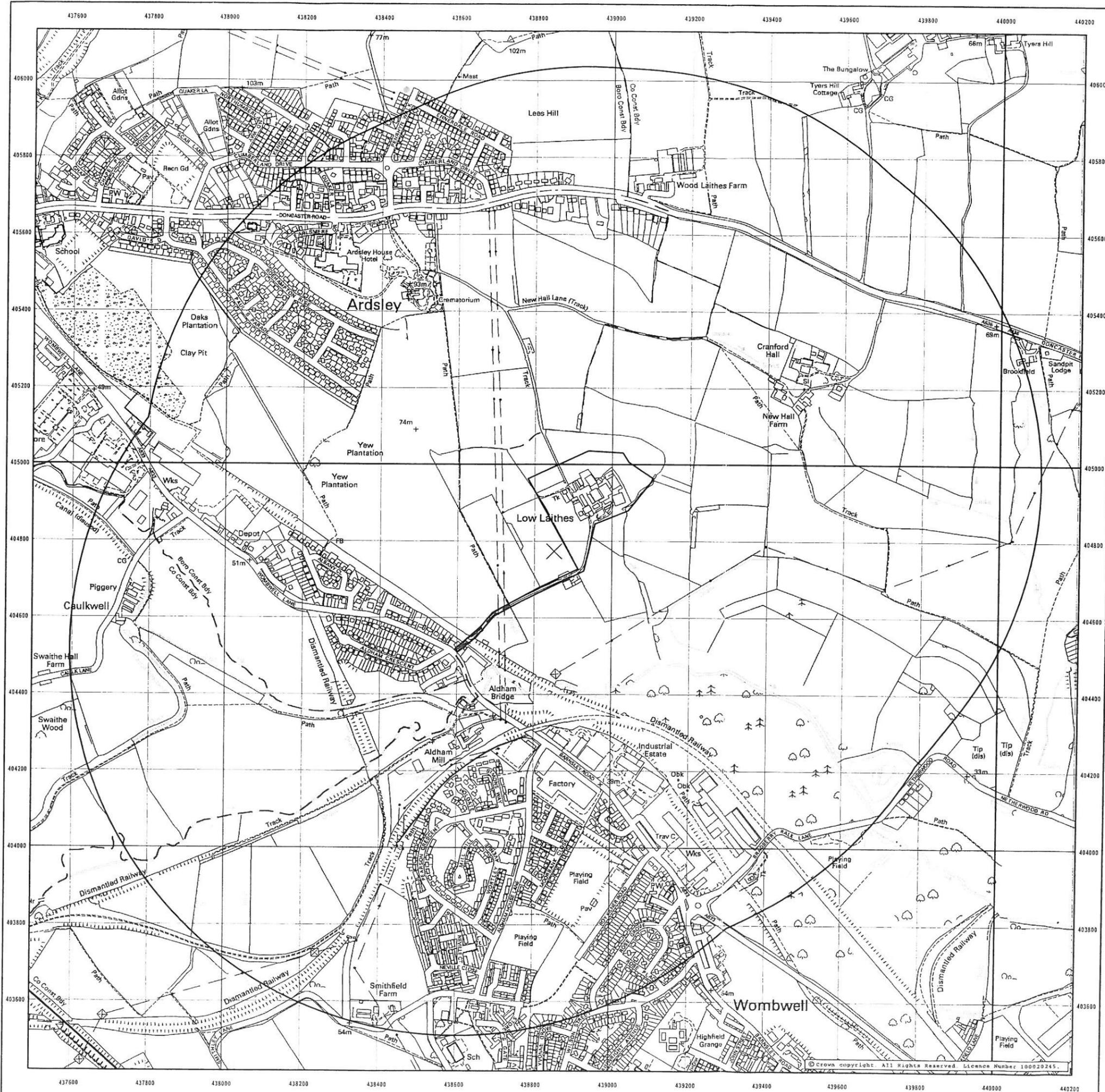
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**SITE DETAILS**      Grid Reference    **438850    404770**

Low Laithes Farm

Low Laithes  
 Barnsley  
 S71 5HB

**Historical Map Legend**

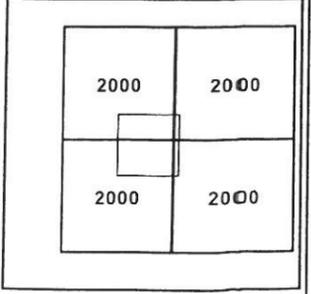
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	Coniferous Trees		Telephone Line (where shown)
	Orchard		Electricity Transmission Line (with poles)
	Rough Grassland		Gravel Pit
	Heath		Shingle
	Scrub		Refuse Tip or Slag Heap
	Marsh, Salt Marsh or Reeds		Sand
	County Boundary (England only)		Sand Pit
	Civil Parish or Community Boundary		Slopes
	Constituency Boundary		District, Unitary, London Borough Boundary

**10K Raster Mapping**      1

The historical maps shown were produced from the Ordnance Survey's 1:10,000 colour raster mapping. These maps are derived from Landplan<sup>®</sup> 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.

**ORDNANCE SURVEY PLAN**  
 Published 2000  
 Source map scale - 1:10,000



Date(s) of Publication    21 of 21

**CLIENT DETAILS**      Envirocheck Order No. **EC15137661\_1\_1**  
(03-Nov-2005 09:29)

**Customer Ref:** Mr J Wood,28587  
**Eastwood & Partners**  
St Andrews House 23 Kingfield Road  
Sheffield  
S11 9AS

**SITE DETAILS**      **Grid Reference**    **438850**    **404770**

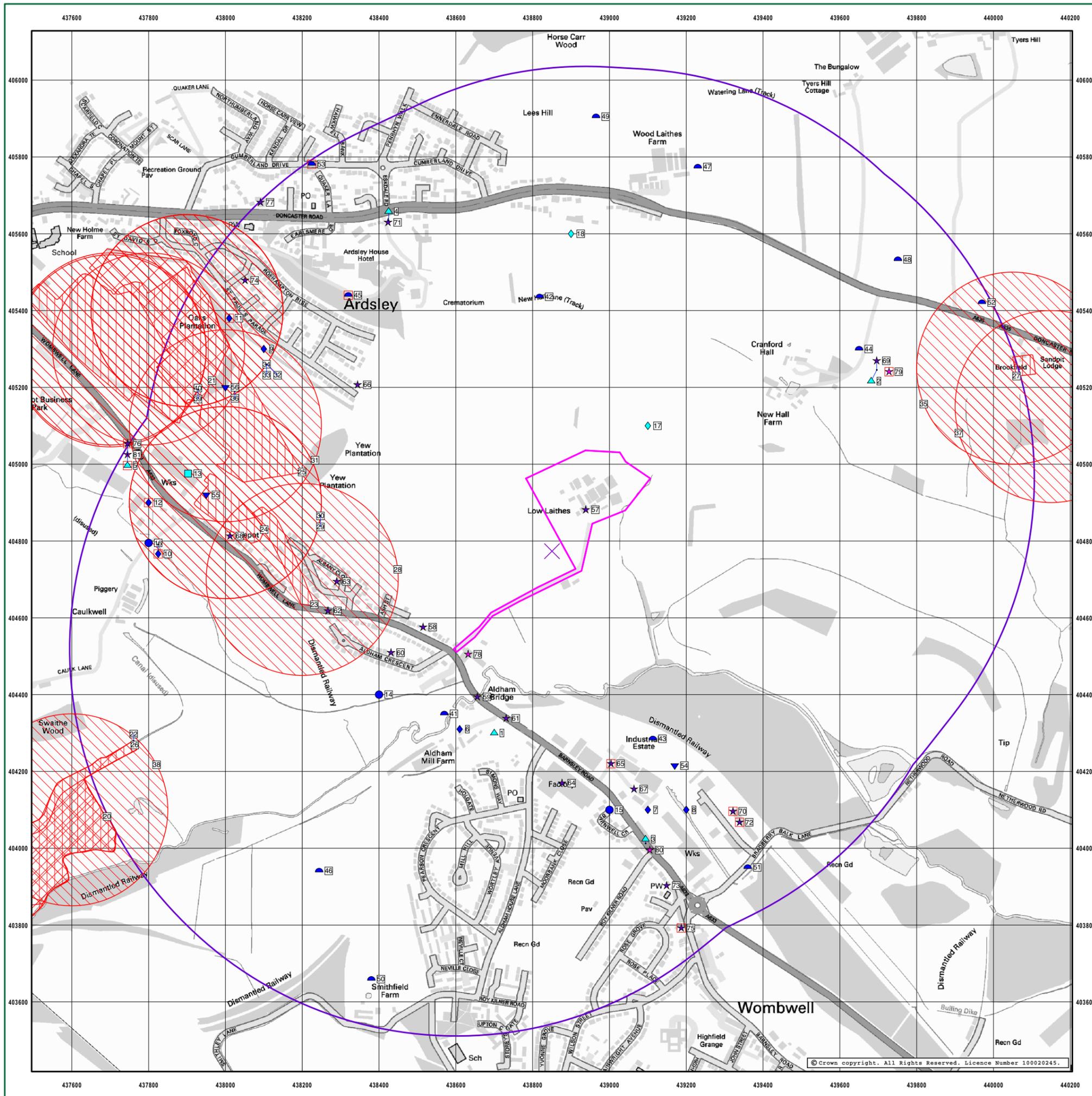
**Low Laithes Farm**

**Low Laithes**  
Barnsley  
S71 5HB

**KEY TO THE LEGEND DATABASE**

- |  |   |
|--|---|
| <b>General</b>   | <b>Waste</b>  |
| ◻ Specified Site   | ▼ Point Location of BGS Recorded Landfill Site                  |
| ✕ Bearing Reference Point                                      | ▨ BGS Recorded Landfill Site                                    |
| ◌ Buffer (250m)  | ▲ Integrated Pollution Control Registered Waste Site            |
| ⊠ Reference Number   | ▩ Licensed Waste Management Facilities (Landfill Boundary)      |
| ◻ Several of Type at Location                                  | ● Licensed Waste Management Facility (Location)                 |
| ⚡ Pylon  | ■ Point Location of Local Authority Recorded Landfill Site      |
| — Overhead Transmission Line                                   | ▨ Local Authority Recorded Landfill Site                        |
| <b>Agency and Hydrological</b>                                 | ▨ Registered Landfill Site                                      |
| ▲ Local Authority Pollution Prevention and Control             | ■ Point Location of Registered Waste Transfer Site              |
| ▼ Local Authority Pollution Prevention and Control Enforcement | ▨ Registered Waste Transfer Site                                |
| ● Point Location of Contaminated Land Register Entry or Notice | ■ Point Location of Registered Waste Treatment or Disposal Site |
| ▨ Contaminated Land Register Entry or Notice                   | ▨ Registered Waste Treatment or Disposal Site                   |
| ◆ Discharge Consent  | <b>Hazardous Substances</b>                                     |
| ▲ Enforcement Or Prohibition Notice                            | ✕ COMAH Site  |
| ▲ Integrated Pollution Prevention Control                      | ✕ Explosive Site  |
| ■ Local Authority Integrated Pollution Prevention and Control  | ✕ NIHHS Site  |
| ● Pollution Incident to Controlled Waters                      | ✕ Planning Hazardous Substance Consent                          |
| ● Substantiated Pollution Incident Register                    | ✕ Planning Hazardous Substance Enforcement                      |
| ▲ Prosecution Relating to Authorised Processes                 | <b>Geological</b>   |
| ◆ Prosecution Relating to Controlled Waters                    | ● BGS Borehole  |
| ▲ Registered Radioactive Substance                             | ▼ BGS Recorded Mineral Site                                     |
| — River Network or Water Feature                               | <b>Industrial Land Use</b>                                      |
| ⊕ River Quality Sampling Point                                 | ★ Contemporary Trade Directory Entry                            |
| ◆ Water Abstraction  | ★ Fuel Station Entry  |
| ◆ Water Industry Act Referral                                  |   |





**CLIENT DETAILS**      Envirocheck Order No. **EC15137661\_1\_1**  
(03-Nov-2005 09:29)

**Customer Ref:** Mr J Wood,28587  
**Eastwood & Partners**  
 St Andrews House 23 Kingfield Road  
 Sheffield  
 S11 9AS

**SITE DETAILS**      **Grid Reference**    **438850**    **404770**

**Low Laithes Farm**  
  
 Low Laithes  
 Barnsley  
 S71 5HB

**KEY TO THE LEGEND DATABASE**

- |   |  |  |  |
|---|--|--|--|
| <b>General</b>  |  | <b>Waste</b>   |  |
| Specified Site  | Point Location of BGS Recorded Landfill Site                 | BGS Recorded Landfill Site                                   | Integrated Pollution Control Registered Waste Site |
| Bearing Reference Point                                     | Buffer (1000m)   | Licensed Waste Management Facilities (Landfill Boundary)     | Licensed Waste Management Facility (Location)      |
| Reference Number  | Several of Type at Location                                  | Point Location of Local Authority Recorded Landfill Site     | Local Authority Recorded Landfill Site             |
| Local Authority Pollution Prevention and Control            | Local Authority Pollution Prevention and Control Enforcement | Point Location of Contaminated Land Register Entry or Notice | Contaminated Land Register Entry or Notice         |
| Discharge Consent   | Enforcement Or Prohibition Notice                            | Discharge Consent  | Enforcement Or Prohibition Notice                  |
| Integrated Pollution Control                                | Integrated Pollution Prevention Control                      | Local Authority Integrated Pollution Prevention and Control  | Pollution Incident to Controlled Waters            |
| Local Authority Integrated Pollution Prevention and Control | Substantiated Pollution Incident Register                    | Prosecution Relating to Authorised Processes                 | Prosecution Relating to Controlled Waters          |
| Registered Radioactive Substance                            | River Quality Sampling Point                                 | Water Abstraction  | Water Industry Act Referral                        |
| BGS Borehole  | BGS Recorded Mineral Site                                    | Contemporary Trade Directory Entry                           | Fuel Station Entry                                 |
| COMAH Site  | Explosive Site   | NIHS Site  | Planning Hazardous Substance Consent               |
| Planning Hazardous Substance Enforcement                    | Geological   | BGS Borehole   | BGS Recorded Mineral Site                          |
| Industrial Land Use   | Contemporary Trade Directory Entry                           | Fuel Station Entry   |  |



EASTWOOD & PARTNERS,  
ST ANDREWS HOUSE 23,  
KINGFIELD ROAD,  
NETHER EDGE,  
SHEFFIELD,  
SOUTH YORKSHIRE,  
S11 9AS

This matter is being dealt with by Darren Moody

Our Ref: 10428019-05

Your Ref: 28587

Electronic Ref:

RRUID: 007.00009198540001

Date: 10 November 2005



Dear Sir,

### Coal Mining Report

## LOW LAITHES FARM, LOW LAITHES, BARNSLEY, SOUTH YORKSHIRE

I refer to the enquiry dated 07th November 2005, received 08th November 2005, in connection with the above.

This report is based on and limited to the records in the possession of The Coal Authority at the time the search is answered.

Ordnance Survey (O.S.) is undertaking a Positional Accuracy Improvement Programme of its mapping data. The Coal Authority (CA) has no control over the timing of issue of Positionally Improved mapping data by O.S. or over users of that data. In some instances the relative position between surface features and coal mining features may alter as a consequence of this programme. The CA will ensure that the integrity of its database is maintained by replotting some mining information to sustain the relationship between that mining information and the improved O.S. surface positions, some of which are now being released. However, mining reports are currently being produced against pre improved O.S. mapping whilst the Authority updates its database in line with the O.S. changes.

### Past Underground Mining

The property is within the likely zone of influence on the surface from workings in 10 seams of coal at 110m to 620m depth, the last date of working being 1990.

Ground movement from the above mentioned past coal workings should by now have ceased.

### Present Underground Mining

The property is not within the zone of likely physical influence on the surface from any present underground coal workings.

### Future Underground Mining

The property is not within a geographical area for which a licence to extract coal by underground methods is awaiting determination by the Coal Authority.

The property is not within a geographical area for which a licence to extract coal by underground methods has been granted.

The property is not within the zone of likely physical influence at the surface from plans of future workings in our possession.

However reserves of coal exist in the locality which could be worked at some time in the future subject to feasibility, licences, and planning consents.

We have no record of any notice of the risk of the land being affected by subsidence being given under S.46 of the Coal Mining Subsidence Act 1991.

### **Shafts and Adits**

We have no knowledge of any mine entries within, or within 20 metres of, the boundary of the property.

### **Surface Geology**

Records in our possession do not disclose any fault or other line of weakness at the surface as having affected the stability of the property.

### **Past Opencast Mining**

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

### **Present Opencast Mining**

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

### **Future Opencast Mining**

The property is not within 800 metres of the geographical boundary of an opencast site for which a licence to extract coal by opencast methods is awaiting determination.

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

### **Subsidence**

A damage notice or claim for alleged subsidence damage was given, made or pursued in January 1992. The claim was discharged by repair.

A damage notice or claim for alleged subsidence damage was given, made or pursued in February 1991. The claim was discharged by repair.

The records in our possession do not disclose any current "Stop Notice" affecting the property.

The records in our possession do not show any request having been made to execute preventative works under S.33 of the Coal Mining Subsidence Act 1991.

### **Withdrawal of Support**

The property lies within a geographical area in respect of which notices of entitlement to withdraw support were published in 1983,1946,1946,1982,1982.

The property does not lie within a geographical area in respect of which a notice has been given under S.41 of the Coal Industry Act 1994, revoking the entitlement to withdraw support.

### **Working Facilities Orders**

The property is not within a geographical area that is the subject of an Order made under the provisions of the Mines (Working Facilities and Support) Acts 1923 and 1966 or any statutory modification or amendment thereof.

—  
—  
—

**Payments to Owners of Former Copyhold Land**

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

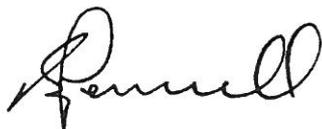
**Additional Remarks**

These replies are prepared in accordance with the 2003 editions of the Coal Authority's Terms and Conditions, User Guide and the Law Society's Guidance Notes.

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We acknowledge the receipt of your remittance in payment of our fee.

Yours faithfully



**Stephen Pennell**

**Director of Mining Information and Services**

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—

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Crown Copyright.

PLAN NOT TO SCALE

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This is a plan of the boundaries of the property in respect of which this report has been prepared. It is the responsibility of the user to ensure that the boundaries shown correspond with those of the property.

APPROXIMATE POSITION OF ENQUIRY BOUNDARY SHOWN

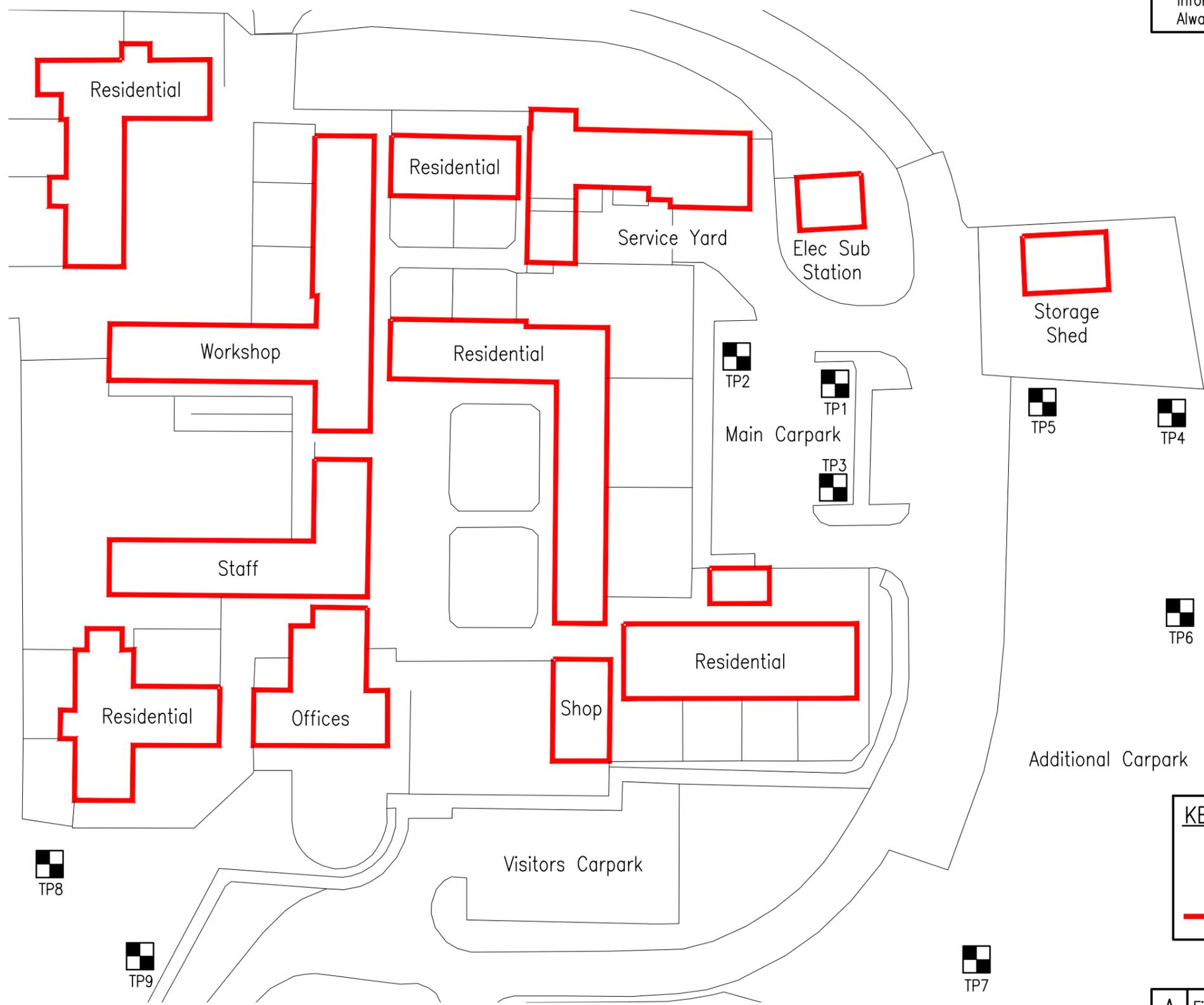
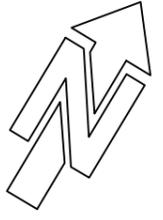


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## **Appendix 2**

### Exploratory Hole Location Plan 37152/001A

Information within this drawing is not necessarily produced to scale.  
Always use figured dimensions and co-ordinates – if in doubt, ask.



**KEY:**

 Approximate position of Trial pits excavated by Eastwood & Partners on 18th June 2014.

 Position of Existing Building.

A	First Issue.			
REV	DESCRIPTION	SIG	CHK	DATE
SCALE WHEN PLOTTED AT A3 1:500		DRAWING STATUS <b>PRELIMINARY</b>		
DRAWN	CHECKED	DATE	DRAWING NUMBER	REV
RH	KS	23.06.14	37152/001	A

**Eastwood & Partners**  
CONSULTING ENGINEERS

St. Andrew's House  
23 Kingfield Road  
Sheffield  
S11 9AS  
Tel 0114 255 4554  
Fax 0114 255 4330



mail@eastwoodandpartners.com  
www.eastwoodandpartners.com

**HESLEY GROUP**  
**LOW LAITHES VILLAGE**  
**EXPLORATORY HOLE LOCATION PLAN**

## **Appendix 3**

### Radon Report



**British  
Geological Survey**  
NATURAL ENVIRONMENT RESEARCH COUNCIL

**GeoReports**

**Katherine Daddo-Langlois  
Eastwood & Partners  
Sheffield  
SOUTH YORKSHIRE  
S11 9AS**

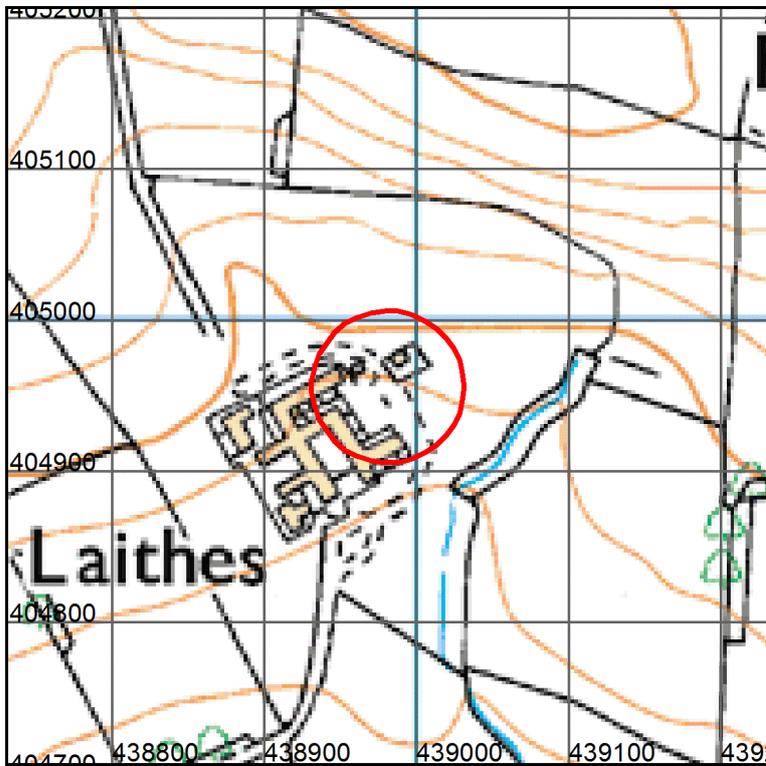
## **Radon Report: England and Wales**

Advisory report on the requirement for radon protective measures in new buildings, conversions and extensions to existing buildings. The report also indicates whether a site is located within a radon Affected Area

**Report Id: *GR\_208776/1***

**Client reference: 37152**

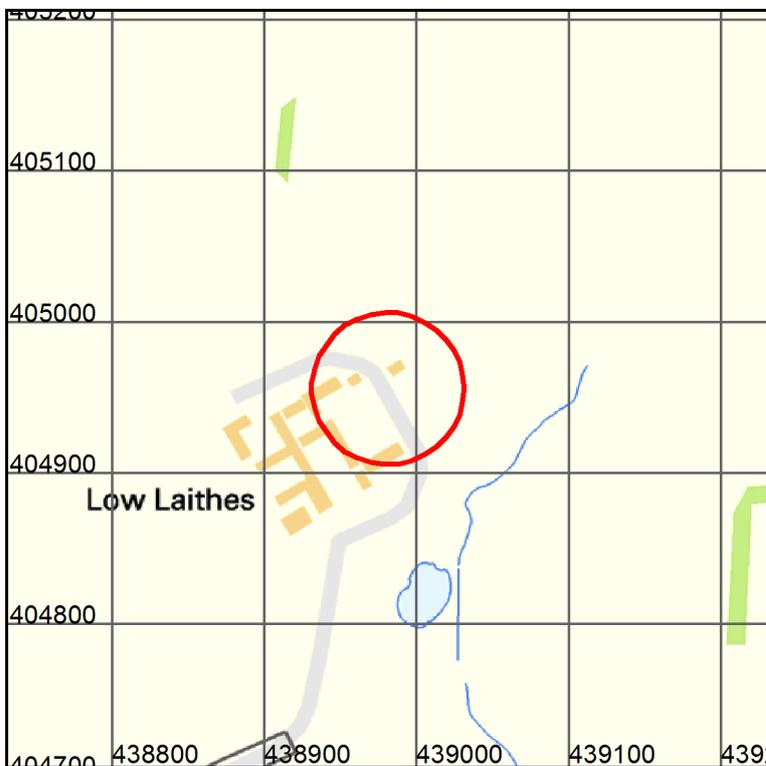
## Search location



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Scale: 1:5 000 (1cm = 50 m)

*This report describes a site located at National Grid Reference 438981, 404956. Note that for sites of irregular shape, this point may lie outside the site boundary. Where the client has submitted a site plan the assessment will be based on the area given.*

**Search location indicated in red**



Contains Ordnance Survey data © Crown Copyright and database right 2014  
OS Street View: Scale: 1:5 000 (1cm = 50 m)



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## **Radon Report: England and Wales**

This is an advisory report on the requirement for radon protective measures in new buildings, conversions and extensions. The report also indicates whether a site is located within a radon Affected Area

### **Requirement for radon protective measures**

The determination below follows advice in *BR211 Radon: Guidance on protective measures for new buildings (2007 edition)*, which also provides guidance on what to do if the result indicates that protective measures are required.

**NO RADON PROTECTIVE MEASURES ARE REQUIRED FOR THE REPORT AREA.**

The BGS is not able to provide advice on the technical specifications of 'basic' and 'full' radon protective measures. This information is detailed in **BRE Report BR211 Radon: guidance on protective measures for new buildings** which may be purchased from [brebookshop.com](http://brebookshop.com). This report offers guidance on the technical solutions that are required to satisfy Building Regulations requirements.

Technical solutions to radon protection in new build and existing dwellings in radon affected areas are available on the BRE web site at: <http://www.bre.co.uk/page.jsp?id=1626> and <http://www.bre.co.uk/radon/> and in a range of technical reports available from [brebookshop.com](http://brebookshop.com); Tel: 01923 664262, email: [bookshop@bre.co.uk](mailto:bookshop@bre.co.uk).

Summary guidance is available on the web at: <http://www.bre.co.uk/radon/protect.html>.

If you require further information or guidance, you should contact your local authority building control officer or approved inspector.



## Radon in existing buildings

### Is this property in a radon affected area – **YES**

The answer to the standard enquiry on house purchase known as **CON29 Standard Enquiry of Local Authority 3.13 Radon Gas: Location of the Property in a radon Affected Area is YES** this property is in a Radon Affected Area as defined by Public Health England (PHE).

The estimated probability of the property being above the Action Level for radon is: **1-3% (INTERMEDIATE PROBABILITY)**.

The result informs you of the estimated probability that this particular property is above the Action Level for radon. This does not necessarily mean there is a radon problem in the property. The only way to determine whether it is above or below the Action Level is to carry out a radon measurement within the existing property.

Radon Affected Areas are designated by Public Health England. They advise that radon gas should be measured in all properties within Radon Affected Areas.

If you are buying a new build property in a Radon Affected Area, you should ask the builder whether radon protective measures were incorporated in the construction of the property.

If you are buying a currently occupied property in a Radon Affected Area you should ask the present owner whether radon levels have been measured in the property. If they have, ask whether the results were above the Radon Action Level and if so whether remedial measures were installed, radon levels were retested, and that the results of re-testing confirmed the effectiveness of the measures.

In radon affected homes, the problem of radon can usually be tackled with simple, effective and relatively inexpensive measures. These measures are comparable in cost to work such as damp-proofing and timber treatment. You can get practical advice about construction work to reduce radon levels from the Building Control Officer at your local council.

For further information, advice about radon, its health risks and details of how to order the radon test, please contact the PHE Radon Helpline on 01235 822622 or go online at [www.ukradon.org](http://www.ukradon.org) or write to Radon Survey, Public Health England, Centre for Radiation, Chemical and Environmental Hazards, Chilton, Didcot, Oxon, OX11 0RQ, email: [radon@hpa.org.uk](mailto:radon@hpa.org.uk). You can obtain an information pack from the PHE free Radon answerphone on 0800 614529



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### What is radon?

Radon is a naturally occurring radioactive gas, which is produced by the radioactive decay of radium which, in turn, is derived from the radioactive decay of uranium. Uranium is found in small quantities in all soils and rocks, although the amount varies from place to place. Radon released from rocks and soils is quickly diluted in the atmosphere. Concentrations in the open air are normally very low and do not present a hazard. Radon that enters enclosed spaces such as some buildings (particularly basements), caves, mines, and tunnels may reach high concentrations in some circumstances. The construction method and degree of ventilation will influence radon levels in individual buildings. A person's exposure to radon will also vary according to how particular buildings and spaces are used.

Inhalation of the radioactive decay products of radon gas increases the chance of developing lung cancer. If individuals are exposed to high concentrations for significant periods of time, there may be cause for concern. In order to limit the risk to individuals, the Government has adopted an Action Level for radon in homes of 200 becquerels per cubic metre ( $\text{Bq m}^{-3}$ ). The Government advises householders that, where the radon level exceeds the Action Level, measures should be taken to reduce the concentration.

### Radon in workplaces

The Ionising Radiation Regulations, 1999, require employers to take action when radon is present above a defined level in the workplace. Advice may be obtained from your local Health and Safety Executive Area Office or the Environmental Health Department of your local authority. The BRE publishes a guide (BR293): **Radon in the workplace**. BRE publications may be obtained from the BRE Bookshop, Tel: 01923 664262, email: [bookshop@bre.co.uk](mailto:bookshop@bre.co.uk) website: [www.brebookshop.com](http://www.brebookshop.com)



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## **Contact Details**

### ***Keyworth (KW) Office***

British Geological Survey  
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Email: [enquiries@bgs.ac.uk](mailto:enquiries@bgs.ac.uk)

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Fax: 01491 692345  
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Edinburgh  
EH9 3LA  
Tel: 0131 650 0207  
Fax: 0131 650 0252  
Email: [enquiry@bgs.ac.uk](mailto:enquiry@bgs.ac.uk)



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- Although samples and records are maintained with all reasonable care, there may be some deterioration in the long term.
- The most appropriate techniques for copying original records are used, but there may be some loss of detail and dimensional distortion when such records are copied.
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- If a report or other output is produced for you on the basis of data you have provided to BGS, or your own data input into a BGS system, please do not rely on it as a source of information about other areas or geological features, as the report may omit important details.
- The topography shown on any map extracts is based on the latest OS mapping and is not necessarily the same as that used in the original compilation of the BGS geological map, and to which the geological linework available at that time was fitted.
- Note that for some sites, the latest available records may be quite historical in nature, and while every effort is made to place the analysis in a modern geological context, it is possible in some cases that the detailed geology at a site may differ from that described.

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**Report issued by  
BGS Enquiry Service**

## **Appendix 4**

Trial Pit Logs, TP1 to TP9

Project Name  
 Low Laithes Village

Project No.  
 37152

Co-ords: -  
 Level: -

Date  
 18/06/2014

Location: Old Farm Lane

Dimensions: 2.50m

Scale  
 1:25

Depth  
 1.90m

0.70m



Logged By  
 KS

Client: Hesley Group

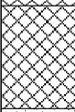
Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.04						Rounded gravel aggregate. Limestone aggregate
0.50	D		0.43			MADE GROUND: Firm to stiff dark grey-black CLAY with fragments of brick, concrete, wire and timber. 0.40-1.00m: Light beige mixed shingle gravel.
0.90	IPP 1	125	0.89			Firm brown mottled grey slightly sandy CLAY with occasional strong angular sandstone and mudstone gravel.
0.90	IPP 2	100				
0.90	IPP 3	150				
0.90	D					
1.20	D					
			1.70			Moderately weak brown-grey MUDSTONE, recovered as angular very clayey sandy gravel.
			1.90			Trialpit Complete at 1.90 m

Remarks: 1. Pit sides relatively stable  
 2. Penetrometer readings given as unconfined compressive strength in kN/m2.

Groundwater: None encountered.



Project Name Low Laithes Village	Project No. 37152	Co-ords: - Level: -	Date 18/06/2014
Location: Old Farm Lane		Dimensions: 2.50m Depth 1.65m	Scale 1:25
Client: Hesley Group			Logged By KS

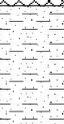
Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
			0.03			Rounded gravel aggregate. Limestone hardcore.
0.50	D		0.35			MADE GROUND: Firm dark grey very sandy CLAY with fragments of concrete, timber, terracotta and wire with mudstone and occasional limestone gravel.
			0.69			Firm to stiff brown-yellow mottled blue-grey sandy CLAY with occasional gravel of strong angular mudstone.
0.90	IPP 1	150				
0.90	IPP 2	150				
0.90	IPP 3	200				
0.90	IPP 4	100				
0.90	D					
			1.65			Trialpit Complete at 1.65 m

Remarks: 1. Pit sides stable  
 2. Penetrometer readings given as unconfined compressive strength in kN/m2.

Groundwater: None encountered.



Project Name Low Laithes Village	Project No. 37152	Co-ords: - Level: -	Date 18/06/2014
Location: Old Farm Lane		Dimensions: 2.50m Depth 1.50m	Scale 1:25
Client: Hesley Group		0.70m	Logged By KS

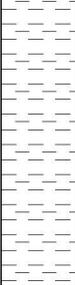
Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.02			0.02			MADE GROUND: Rounded gravel aggregate. MADE GROUND: Limestone aggregate.
0.70	D		0.61			MADE GROUND: Firm to stiff brown slightly sandy clay with brick, concrete, terracotta and timber fragments. Localised black oil staining. 0.7-1.20m: Light beige mixed shingle gravel.
1.20	IPP 1	175	1.10			Firm orange mottled grey-brown sandy CLAY with localised sand banding and occasional strong angular mudstone gravel.
1.20	IPP 2	150				
1.20	IPP 3	150				
1.20	D		1.50			Trialpit Complete at 1.50 m

Remarks: 1. Pit sides relatively stable  
2. Penetrometer readings given as unconfined compressive strength in kN/m2.  
3. Slight petroleum odour from arisings.

Groundwater: None encountered



Project Name Low Laithes Village	Project No. 37152	Co-ords: - Level: -	Date 18/06/2014
Location: Old Farm Lane		Dimensions: 3.80m Depth 3.60m	Scale 1:25
Client: Hesley Group		0.70m	Logged By KS

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.30						TOPSOIL/ MADE GROUND: Sawdust and brown clay with occasional rootlets.
0.50	D					Soft brown-grey friable CLAY.
1.20	D					
2.10						Firm brown-grey slightly gravelly CLAY. Gravel of moderately strong angular mudstone with occasional iron-staining.
2.60						Moderately weak brown-grey MUDSTONE. Recovered as angular clayey gravel with local iron staining.
3.60						Trialpit Complete at 3.60 m

Remarks: 1. Partial side instability from 3.20 m bgl.  
 2. No penetrometer readings available.

Groundwater: Ingress from 3.20 m bgl, caused pooling at base.





Project Name Low Laithes Village	Project No. 37152	Co-ords: - Level: -	Date 18/06/2014
Location: Old Farm Lane		Dimensions: 2.50m	Scale 1:25
Client: Hesley Group		Depth 2.60m	Logged By KS

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	D		0.40			TOPSOIL/ MADE GROUND: Dark brown slightly sandy clay with frequent brick, porcelain, mudstone, timber and wire fragments.
0.70	IPP 1	190				
0.70	IPP 2	150				
0.90	IPP 3	200				
0.90	IPP 4	250				
1.20	D		2.60			1.60-2.60: Gravel content increasing with depth.

Remarks: 1. Pit sides stable  
 2. Pocket penetrometer readings given as unconfined compressive strength in kN/m2.

Groundwater: Running from 0.38 m bgl, caused pooling at base.









## **Appendix 5**

Plasticity Results, Report Number PSL 14/3080

Chemtest Results, Report Numbers 51858 & 51858A

Table of Residential Assessment Values



# LABORATORY REPORT



4043

**Contract Number: PSL14/3080**

Client's Reference:

Report Date: 07 July 2014

Client Name: Eastwood & Partners  
St Andrews House  
23 Kingfield Road  
Sheffield

S11 9AS

**For the attention of: Katie Swann**

Contract Title: Low Laithes Farm

Date Received: 24/6/2014

Date Commenced: 24/6/2014

Date Completed: 7/7/2014

**Notes: Opinions and Interpretations are outside the UKAS Accreditation**

A copy of the Laboratory Schedule of accredited tests as issued by UKAS is attached to this report. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced in full, without the prior written approval of the laboratory.

Checked and Approved Signatories:

R Gunson  
(Director)

A Watkins  
(Director)

M Beall  
(Laboratory Manager)

D Lambe  
(Senior Technician)

S Royle  
(Senior Technician)

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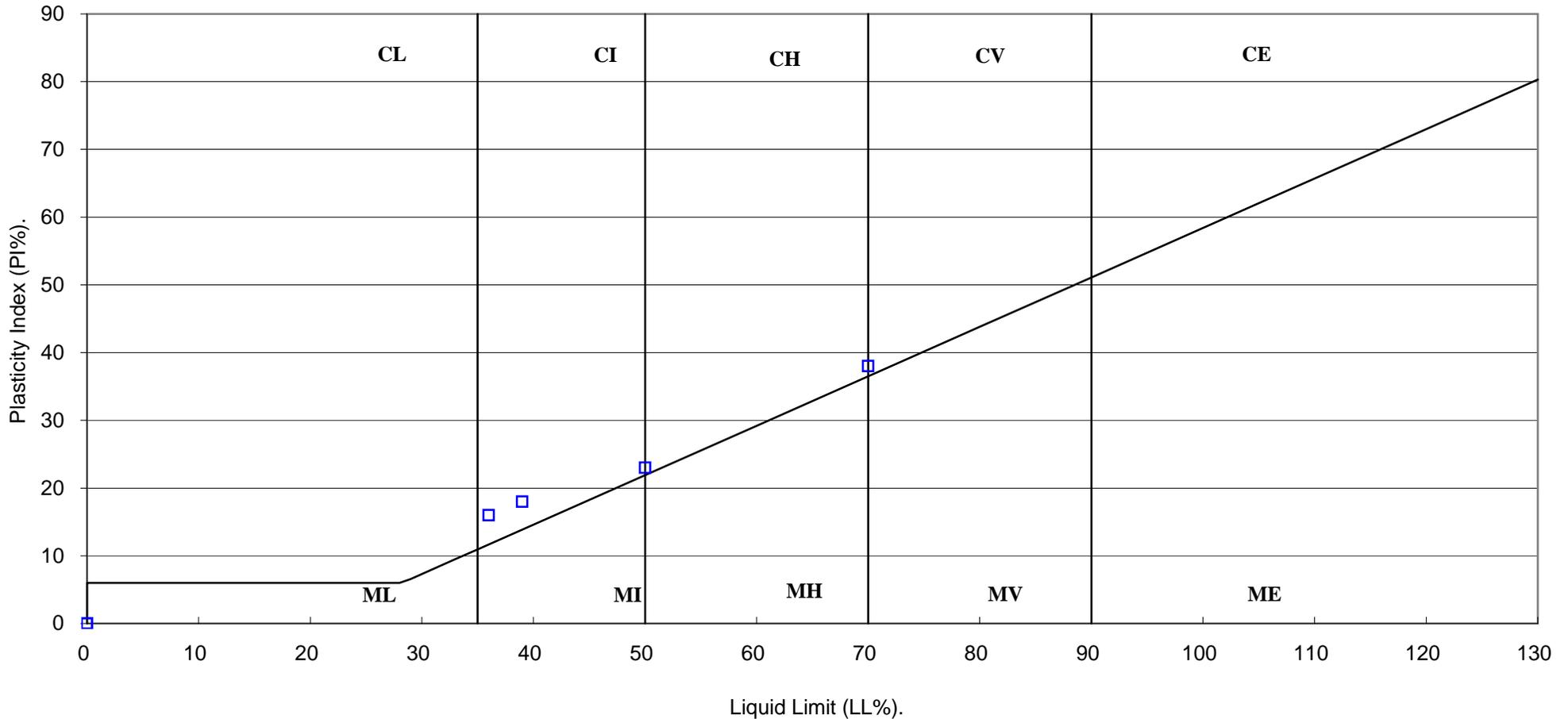
Page 1 of





# PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION.

(B.S.5930 : 1999)



Compiled by	Date	Checked by	Date	Approved by	Date
<i>[Signature]</i>	07/07/14	<i>[Signature]</i>	07/07/14	<i>[Signature]</i>	07/07/14
<b>LOW LAITHES FARM.</b>				<b>Contract No:</b>	<b>PSL14/3080</b>
				<b>Client Ref:</b>	<b>37152</b>



## ANALYTICAL TEST REPORT

**Contract no:** 51858  
**Contract name:** Low Laithes Farm  
**Client reference:** 37152  
**Clients name:** Eastwood & Partners Ltd  
**Clients address:** St Andrew's House  
23 Kingfield Road  
Sheffield  
S11 9AS

**Samples received:** 23 June 2014

**Analysis started:** 25 June 2014

**Analysis completed** 02 July 2014

**Report issued:** 02 July 2014

**Notes:** Opinions and interpretations expressed herein are outside the UKAS accreditation scope. Unless otherwise stated, Chemtech Environmental Ltd was not responsible for sampling. Methods, procedures and performance data are available on request. Results reported herein relate only to the material supplied to the laboratory. This report shall not be reproduced except in full, without prior written approval. Samples will be disposed of 6 weeks from initial receipt unless otherwise instructed.

**Key:** U UKAS accredited test  
M MCERTS & UKAS accredited test  
\$ Test carried out by an approved subcontractor  
I/S Insufficient sample to carry out test  
N/S Sample not suitable for testing

**Approved by:**

Karan Campbell  
Director

John Campbell  
Director

Dave Bowerbank  
Customer Services Co-ordinator

# Chemtech Environmental Limited

## SAMPLE INFORMATION

### MCERTS (Soils):

Soil descriptions are only intended to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions. MCERTS accreditation applies for sand, clay and loam/topsoil, or combinations of these whether these are derived from naturally occurring soils or from made ground, as long as these materials constitute the major part of the sample. Other materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

All results are reported on a dry basis. Samples dried at no more than 30°C in a drying cabinet.

Analytical results are inclusive of stones.

Lab ref	Sample id	Depth (m)	Sample description	Material removed	% Removed	% Moisture
51858-1	TP 1	0.50	Sandy Clay with Stones & Gravel	-	-	9.2
51858-2	TP 1	0.90	Clay	-	-	17.2
51858-3	TP 3	0.70	Clay	-	-	21.9
51858-4	TP 3	1.20	Clay	-	-	13.4
51858-5	TP 6	0.10	Clay with Gravel & Roots	-	-	15.9
51858-6	TP 7	0.50	Sandy Clay with Stones & Gravel	-	-	14.5
51858-7	TP 7	1.20	Clay with Gravel & Stones	-	-	20.1
51858-8	TP 8	0.10	Clay with Roots & Stones	-	-	19.9
51858-9	TP 8	0.50	Sandy Clay with Garvel & Stones	-	-	18.3
51858-10	TP 8	1.20	Clay	-	-	20.9
51858-11	TP 9	0.10	Clay with Gravel & Roots	-	-	32.0

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## SOILS

Lab number			51858-1	51858-2	51858-3	51858-4	51858-5	51858-6
Sample id			TP 1	TP 1	TP 3	TP 3	TP 6	TP 7
Depth (m)			0.50	0.90	0.70	1.20	0.10	0.50
Date sampled			18/06/2014	18/06/2014	18/06/2014	18/06/2014	18/06/2014	18/06/2014
Test	Method	Units						
Arsenic (total)	CE127 <sup>M</sup>	mg/kg As	7.1	17	5.7	7.0	6.9	12
Cadmium (total)	CE127 <sup>M</sup>	mg/kg Cd	0.3	0.3	<0.2	<0.2	<0.2	<0.2
Chromium (total)	CE127 <sup>M</sup>	mg/kg Cr	48	68	29	38	53	51
Copper (total)	CE127 <sup>M</sup>	mg/kg Cu	16	30	20	25	17	18
Lead (total)	CE127 <sup>M</sup>	mg/kg Pb	25	25	12	21	16	22
Mercury (total)	CE127 <sup>M</sup>	mg/kg Hg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel (total)	CE127 <sup>M</sup>	mg/kg Ni	13	36	13	43	17	22
Selenium (total)	CE127 <sup>M</sup>	mg/kg Se	0.6	1.6	0.5	0.9	0.9	1.3
Zinc (total)	CE127 <sup>M</sup>	mg/kg Zn	76	92	41	71	57	71
pH	CE004 <sup>M</sup>	units	8.1	7.8	8.3	8.1	8.1	8.5
Sulphate (2:1 water soluble)	CE061 <sup>M</sup>	mg/l SO <sub>4</sub>	198	46	369	85	-	117
Sulphate (total)	CE062 <sup>M</sup>	mg/kg SO <sub>4</sub>	1134	313	1118	401	-	424
Sulphur (total)	CE119	% w/w S	0.06	0.10	0.09	0.01	-	0.01
<b>PAH</b>								
Naphthalene	CE087	mg/kg	0.08	<0.01	0.05	<0.01	1.06	8.20
Acenaphthylene	CE087	mg/kg	0.03	<0.01	<0.01	<0.01	<0.01	7.50
Acenaphthene	CE087	mg/kg	0.08	<0.01	0.07	0.01	0.02	7.47
Fluorene	CE087	mg/kg	0.09	<0.01	0.11	<0.01	<0.01	27.08
Phenanthrene	CE087	mg/kg	0.89	<0.01	0.44	<0.01	0.20	117.43
Anthracene	CE087	mg/kg	0.30	<0.01	0.28	<0.01	0.04	30.07
Fluoranthene	CE087	mg/kg	2.13	<0.01	1.16	0.02	0.51	97.15
Pyrene	CE087	mg/kg	2.03	<0.01	0.99	<0.01	0.49	69.73
Benzo(a)anthracene	CE087	mg/kg	1.36	<0.01	0.59	<0.01	0.22	31.06
Chrysene	CE087	mg/kg	1.45	<0.01	0.61	<0.01	0.27	33.04
Benzo(b)fluoranthene	CE087	mg/kg	1.77	<0.01	0.69	<0.01	0.35	30.45
Benzo(k)fluoranthene	CE087	mg/kg	0.84	<0.01	0.30	<0.01	0.15	12.27
Benzo(a)pyrene	CE087	mg/kg	1.70	<0.01	0.64	<0.01	0.33	24.10
Indeno(123cd)pyrene	CE087	mg/kg	0.99	<0.01	0.37	<0.01	0.19	12.62
Dibenz(ah)anthracene	CE087	mg/kg	0.21	<0.01	0.07	<0.01	0.04	2.90
Benzo(ghi)perylene	CE087	mg/kg	0.94	<0.01	0.34	<0.01	0.20	10.32
PAH (total of USEPA 16)	CE087	mg/kg	14.9	<0.16	6.7	<0.16	4.07	521
<b>TPH</b>								
TPH Aromatic EC5-EC7	CE068	mg/kg	-	-	<0.01	-	-	<0.01
TPH Aromatic EC7-EC8	CE068	mg/kg	-	-	<0.01	-	-	<0.01
TPH Aromatic EC8-EC10	CE068	mg/kg	-	-	<0.01	-	-	<0.01
TPH Aromatic EC10-EC12	CE068	mg/kg	-	-	<1	-	-	8
TPH Aromatic EC12-EC16	CE068	mg/kg	-	-	<1	-	-	15
TPH Aromatic EC16-EC21	CE068	mg/kg	-	-	3	-	-	342
TPH Aromatic EC21-EC35	CE068	mg/kg	-	-	2	-	-	146
TPH Aromatic EC35-EC44	CE068	mg/kg	-	-	<1	-	-	10
TPH Aliphatic EC5-EC6	CE068	mg/kg	-	-	<0.1	-	-	0.1

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## SOILS

Lab number			51858-1	51858-2	51858-3	51858-4	51858-5	51858-6
Sample id			TP 1	TP 1	TP 3	TP 3	TP 6	TP 7
Depth (m)			0.50	0.90	0.70	1.20	0.10	0.50
Date sampled			18/06/2014	18/06/2014	18/06/2014	18/06/2014	18/06/2014	18/06/2014
Test	Method	Units						
TPH Aliphatic EC6-EC8	CE068	mg/kg	-	-	<0.1	-	-	0.2
TPH Aliphatic EC8-EC10	CE068	mg/kg	-	-	0.2	-	-	<0.1
TPH Aliphatic EC10-EC12	CE068	mg/kg	-	-	<1	-	-	<1
TPH Aliphatic EC12-EC16	CE068	mg/kg	-	-	5	-	-	4
TPH Aliphatic EC16-EC35	CE068	mg/kg	-	-	142	-	-	246
TPH Aliphatic EC35-EC44	CE068	mg/kg	-	-	15	-	-	52

# Chemtech Environmental Limited

## SOILS

Lab number			51858-7	51858-8	51858-9	51858-10	51858-11
Sample id			TP 7	TP 8	TP 8	TP 8	TP 9
Depth (m)			1.20	0.10	0.50	1.20	0.10
Date sampled			18/06/2014	18/06/2014	18/06/2014	18/06/2014	18/06/2014
Test	Method	Units					
Arsenic (total)	CE127 <sup>M</sup>	mg/kg As	13	9.1	10	25	9.5
Cadmium (total)	CE127 <sup>M</sup>	mg/kg Cd	<0.2	0.2	0.3	<0.2	<0.2
Chromium (total)	CE127 <sup>M</sup>	mg/kg Cr	40	43	49	18	37
Copper (total)	CE127 <sup>M</sup>	mg/kg Cu	16	17	20	21	21
Lead (total)	CE127 <sup>M</sup>	mg/kg Pb	42	34	40	9.9	31
Mercury (total)	CE127 <sup>M</sup>	mg/kg Hg	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel (total)	CE127 <sup>M</sup>	mg/kg Ni	12	14	16	8.2	13
Selenium (total)	CE127 <sup>M</sup>	mg/kg Se	1.0	0.9	1.0	1.1	0.9
Zinc (total)	CE127 <sup>M</sup>	mg/kg Zn	53	72	116	13	67
pH	CE004 <sup>M</sup>	units	7.1	7.5	8.1	6.9	7.3
Sulphate (2:1 water soluble)	CE061 <sup>M</sup>	mg/l SO <sub>4</sub>	160	-	492	82	-
Sulphate (total)	CE062 <sup>M</sup>	mg/kg SO <sub>4</sub>	631	-	1899	241	-
Sulphur (total)	CE119	% w/w S	0.02	-			-
<b>PAH</b>							
Naphthalene	CE087	mg/kg	0.04	0.02	0.07	<0.01	0.02
Acenaphthylene	CE087	mg/kg	0.01	0.02	0.01	<0.01	<0.01
Acenaphthene	CE087	mg/kg	0.02	<0.01	0.06	<0.01	<0.01
Fluorene	CE087	mg/kg	0.03	0.01	0.06	<0.01	<0.01
Phenanthrene	CE087	mg/kg	0.41	0.25	0.61	<0.01	0.12
Anthracene	CE087	mg/kg	0.17	0.08	0.23	<0.01	0.03
Fluoranthene	CE087	mg/kg	0.94	0.60	1.53	0.02	0.43
Pyrene	CE087	mg/kg	0.76	0.52	1.34	<0.01	0.40
Benzo(a)anthracene	CE087	mg/kg	0.35	0.34	0.83	<0.01	0.17
Chrysene	CE087	mg/kg	0.34	0.33	0.87	<0.01	0.20
Benzo(b)fluoranthene	CE087	mg/kg	0.36	0.33	0.79	<0.01	0.25
Benzo(k)fluoranthene	CE087	mg/kg	0.16	0.16	0.37	<0.01	0.09
Benzo(a)pyrene	CE087	mg/kg	0.33	0.29	0.81	<0.01	0.19
Indeno(123cd)pyrene	CE087	mg/kg	0.18	0.14	0.59	<0.01	0.12
Dibenz(ah)anthracene	CE087	mg/kg	0.04	0.03	0.10	<0.01	0.03
Benzo(ghi)perylene	CE087	mg/kg	0.16	0.14	0.52	<0.01	0.11
PAH (total of USEPA 16)	CE087	mg/kg	4.29	3.26	8.79	<0.16	2.15
<b>TPH</b>							
TPH Aromatic EC5-EC7	CE068	mg/kg	-	-	-	-	-
TPH Aromatic EC7-EC8	CE068	mg/kg	-	-	-	-	-
TPH Aromatic EC8-EC10	CE068	mg/kg	-	-	-	-	-
TPH Aromatic EC10-EC12	CE068	mg/kg	-	-	-	-	-
TPH Aromatic EC12-EC16	CE068	mg/kg	-	-	-	-	-
TPH Aromatic EC16-EC21	CE068	mg/kg	-	-	-	-	-
TPH Aromatic EC21-EC35	CE068	mg/kg	-	-	-	-	-
TPH Aromatic EC35-EC44	CE068	mg/kg	-	-	-	-	-
TPH Aliphatic EC5-EC6	CE068	mg/kg	-	-	-	-	-

# Chemtech Environmental Limited

## SOILS

Lab number			51858-7	51858-8	51858-9	51858-10	51858-11
Sample id			TP 7	TP 8	TP 8	TP 8	TP 9
Depth (m)			1.20	0.10	0.50	1.20	0.10
Date sampled			18/06/2014	18/06/2014	18/06/2014	18/06/2014	18/06/2014
Test	Method	Units					
TPH Aliphatic EC6-EC8	CE068	mg/kg	-	-	-	-	-
TPH Aliphatic EC8-EC10	CE068	mg/kg	-	-	-	-	-
TPH Aliphatic EC10-EC12	CE068	mg/kg	-	-	-	-	-
TPH Aliphatic EC12-EC16	CE068	mg/kg	-	-	-	-	-
TPH Aliphatic EC16-EC35	CE068	mg/kg	-	-	-	-	-
TPH Aliphatic EC35-EC44	CE068	mg/kg	-	-	-	-	-

# Chemtech Environmental Limited

## METHOD DETAILS

METHOD	SOILS	METHOD SUMMARY	SAMPLE	STATUS	LOD	UNITS
CE127	Arsenic (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg As
CE127	Cadmium (total)	Aqua regia digest, ICP-MS	Dry	M	0.2	mg/kg Cd
CE127	Chromium (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg Cr
CE127	Copper (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg Cu
CE127	Lead (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg Pb
CE127	Mercury (total)	Aqua regia digest, ICP-MS	Dry	M	0.5	mg/kg Hg
CE127	Nickel (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg Ni
CE127	Selenium (total)	Aqua regia digest, ICP-MS	Dry	M	0.3	mg/kg Se
CE127	Zinc (total)	Aqua regia digest, ICP-MS	Dry	M	5	mg/kg Zn
CE061	Sulphate (2:1 water soluble)	Aqueous extraction, ICP-OES	Dry	M	10	mg/l SO <sub>4</sub>
CE062	Sulphate (total)	Acid extraction, ICP-OES	Dry	M	100	mg/kg SO <sub>4</sub>
CE119	Sulphur (total)	Acid extraction, ICP-OES	Dry		0.01	% w/w S
CE087	PAH (speciated)	Solvent extraction, GC-MS	Wet		0.01	mg/kg
CE068	TPH Aliphatic/Aromatic fractions (C5-C10)	Headspace GC-FID	Wet		0.01-0.1	mg/kg
CE068	TPH Aliphatic/Aromatic fractions (C10-C44)	Solvent extraction, GC-FID	Wet		1	mg/kg

# Chemtech Environmental Limited

## DEVIATING SAMPLE INFORMATION

### Comments

Sample deviation is determined in accordance with the UKAS note "Guidance on Deviating Samples" and based on reference standards and laboratory trials.

For samples identified as deviating, test result(s) may be compromised and may not be representative of the sample at the time of sampling.

Chemtech Environmental Ltd cannot be held responsible for the integrity of sample(s) received if Chemtech Environmental Ltd did not undertake the sampling. Such samples may be deviating.

### Key

- N No (not deviating sample)
- Y Yes (deviating sample)
- A Sampling date not provided
- B Sampling time not provided (waters only)
- C Sample exceeded holding time(s)
- D Sample not received in appropriate containers
- E Headspace present in sample container
- F Sample not chemically fixed (where appropriate)
- G Sample not cooled
- H Other (specify)

Lab ref	Sample id	Depth (m)	Deviating	Tests (Reason for deviation)
51858-1	TP 1	0.50	N	
51858-2	TP 1	0.90	N	
51858-3	TP 3	0.70	N	
51858-4	TP 3	1.20	N	
51858-5	TP 6	0.10	N	
51858-6	TP 7	0.50	N	
51858-7	TP 7	1.20	N	
51858-8	TP 8	0.10	N	
51858-9	TP 8	0.50	N	
51858-10	TP 8	1.20	N	
51858-11	TP 9	0.10	N	

## ANALYTICAL TEST REPORT

**Contract no:** 51858A  
**Contract name:** Low Laithes Farm  
**Client reference:** 37152  
**Clients name:** Eastwood & Partners Ltd  
**Clients address:** St Andrew's House  
23 Kingfield Road  
Sheffield  
S11 9AS

**Samples received:** 23 June 2014

**Analysis started:** 04 August 2014

**Analysis completed** 11 August 2014

**Report issued:** 11 August 2014

**Notes:** Opinions and interpretations expressed herein are outside the UKAS accreditation scope. Unless otherwise stated, Chemtech Environmental Ltd was not responsible for sampling. Methods, procedures and performance data are available on request. Results reported herein relate only to the material supplied to the laboratory. This report shall not be reproduced except in full, without prior written approval. Samples will be disposed of 6 weeks from initial receipt unless otherwise instructed.

**Key:** U UKAS accredited test  
M MCERTS & UKAS accredited test  
\$ Test carried out by an approved subcontractor  
I/S Insufficient sample to carry out test  
N/S Sample not suitable for testing

**Approved by:** 

Karan Campbell  
Director

John Campbell  
Director

Dave Bowerbank  
Customer Services Co-ordinator

# Chemtech Environmental Limited

## SAMPLE INFORMATION

### MCERTS (Soils):

Soil descriptions are only intended to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions. MCERTS accreditation applies for sand, clay and loam/topsoil, or combinations of these whether these are derived from naturally occurring soils or from made ground, as long as these materials constitute the major part of the sample. Other materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

All results are reported on a dry basis. Samples dried at no more than 30°C in a drying cabinet.  
Analytical results are inclusive of stones.

Lab ref	Sample id	Depth (m)	Sample description	Material removed	% Removed	% Moisture
51858-1	TP 1	0.50	Sandy Clay with Stones & Gravel	-	-	9.2

# Chemtech Environmental Limited

## SOILS

<b>Lab number</b>			51858-1 A	51858-1 B	51858-1 C	51858-1 D
<b>Sample id</b>			TP 1	TP 1	TP 1	TP 1
<b>Depth (m)</b>			0.50	0.50	0.50	0.50
<b>Date sampled</b>			18/06/2014	18/06/2014	18/06/2014	18/06/2014
<b>Test</b>	<b>Method</b>	<b>Units</b>				
<b>PAH</b>						
Benzo(a)pyrene	CE087	mg/kg	13.17	1.02	1.33	1.49

# Chemtech Environmental Limited

## METHOD DETAILS

METHOD	SOILS	METHOD SUMMARY	SAMPLE	STATUS	LOD	UNITS
CE087	PAH (speciated)	Solvent extraction, GC-MS	Wet		0.01	mg/kg

# Chemtech Environmental Limited

## DEVIATING SAMPLE INFORMATION

### Comments

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Chemtech Environmental Ltd cannot be held responsible for the integrity of sample(s) received if Chemtech Environmental Ltd did not undertake the sampling. Such samples may be deviating.

### Key

- N No (not deviating sample)
- Y Yes (deviating sample)
- A Sampling date not provided
- B Sampling time not provided (waters only)
- C Sample exceeded holding time(s)
- D Sample not received in appropriate containers
- E Headspace present in sample container
- F Sample not chemically fixed (where appropriate)
- G Sample not cooled
- H Other (specify)

Lab ref	Sample id	Depth (m)	Deviating	Tests (Reason for deviation)
51858-1	TP 1	0.50	N	

Inorganics	Intended Land Use
	Residential (mg/kg)
Arsenic	32
Cadmium	10
Chromium	3000
Chromium (VI)	4.3
Lead	200
Mercury	1
Nickel	130
Selenium	350
Copper	80 <sup>*1</sup> (200 above pH7)
Zinc	200 <sup>*1</sup> (300 above pH7)

Notes:

\*1 - These are pH dependent; the most conservative value is given in this case.

The assessment values for the first seven metals or metalloids (arsenic to selenium) are the Soil Guideline Values (SGVs) derived by DEFRA and Environment Agency using the 'Contaminated Land Exposure Assessment' model. The assessment concentrations for arsenic, cadmium, nickel, mercury and selenium are outlined in the Environment Agency's Science Report series SC050021. These are based on a sandy loam soil and 6% soil organic matter. The assessment concentrations for the remaining metals/metalloids are described in the Contaminated Land Report Series (CLR), which have now been withdrawn.

The SGV threshold value is not intended to be applied to individual sample results where materials are similar, as the levels of contaminants will have a natural variability across the site. The modified mean value should instead be compared with the SGV.

The assessment values for the metals copper and zinc are levels at which plant growth is thought to be affected. The assessment values for copper and zinc are taken from the maximum permissible and advisable concentrations in soil after application of soil sludge given in the 'The Code of Good Agricultural Practice for the Protection of Soil', MAFF, 1998.

The assessment of sulphate, water soluble sulphate, elemental sulphur and sulphide is to determine the aggressive nature of the ground with respect to concrete and consequently the results are compared with BRE Special Digest 1:2005 'Concrete in Aggressive Ground'.

Prepared	CAT	Checked	CAT	Date	24.06.14	Job No	37152
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 <b>Eastwood &amp; Partners</b> <small>CONSULTING ENGINEERS</small> <b>St Andrew's House</b> <b>23 Kingfield Road</b> <b>Sheffield</b> <b>S11 9AS</b>  Tel: (0114) 255 4554 Fax: (0114) 255 4330	<b>LOW LAITHES VILLAGE</b>  <b>GENERIC ASSESSMENT CRITERIA - RESIDENTIAL</b>
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Organic Compounds	Intended Land Use Residential (mg/kg)		
	1% SOM	2.5% SOM	6% SOM
Naphthalene	1.5	3.7	8.7
Acenaphthene	210	480	1000
Acenaphthylene	170	400	850
Fluorene	160	380	780
Phenanthrene	92	200	380
Anthracene	2,300	4,900	9,200
Fluoranthene	260	460	670
Pyrene	560	1,000	1,600
Benzo(a)anthracene	3.1	4.7	5.9
Chrysene	6.0	8.0	9.3
Benzo(b)fluoranthene	5.6	6.5	7.0
Benzo(k)fluoranthene	8.5	9.6	10
Benzo(a)pyrene	0.83	0.94	1.0
Dibenz(a,h)anthracene	0.76	0.86	0.90
Indeno(1,2,3-cd)pyrene	3.2	3.9	4.2
Benzo(g,h,i)perylene	44	46	47

The assessment criteria for chromium (VI) and the sixteen polycyclic aromatic hydrocarbon (PAH) species covered under the USEPA test have been taken from Nathanail, C. P., McCaffrey, C., Ashmore, M. H., Cheng, Y. Y., Gillett, A., Ogden, R. & Scott, D., 2009 *'The LQM/CIEH Generic Assessment Criteria for Human Health Risk Assessment 2<sup>nd</sup> Edition'*, Land Quality Press, Nottingham. This is also the case for phenol at 1% and 2.5% SOM. These are also all based on a sandy loam soil.

The threshold value is not intended to be applied to individual sample results where materials are similar, as the levels of contaminants will have a natural variability across the site. The modified mean value should instead be compared with the threshold value.

Prepared	CAT	Checked	CAT	Date	24.06.14	Job No	37152
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 <b>Eastwood &amp; Partners</b> <small>CONSULTING ENGINEERS</small> <b>St Andrew's House</b> <b>23 Kingfield Road</b> <b>Sheffield</b> <b>S11 9AS</b>  Tel: (0114) 255 4554 Fax: (0114) 255 4330	<b>LOW LAITHES VILLAGE</b>  <b>GENERIC ASSESSMENT CRITERIA - RESIDENTIAL</b>
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TPH Fraction	Intended Land Use Residential (mg/kg)		
	1% SOM	2.5% SOM	6% SOM
Aliphatic EC 5-6	30	55	110
Aliphatic EC >6-8	73	160	370
Aliphatic EC >8-10	19	46	110
Aliphatic EC >10-12	93	230	540
Aliphatic EC >12-16	740	1,700	3,000
Aliphatic EC >16-35	45,000	64,000	76,000
Aliphatic EC >35-44	45,000	64,000	76,000
Aromatic EC 5-7	65	130	280
Aromatic EC >7-8	120	270	611
Aromatic EC >8-10	27	65	151
Aromatic EC >10-12	69	160	346
Aromatic EC >12-16	140	310	593
Aromatic EC >16-21	250	480	770
Aromatic EC >21-35	890	1,100	1,230
Aromatic EC >35-44	890	1,100	1,230

The assessment criteria for each of the petroleum hydrocarbon fractions have been taken from Nathanail, C. P., McCaffrey, C., Ashmore, M. H., Cheng, Y. Y., Gillett, A., Ogden, R. & Scott, D., 2009 *'The LQM/CIEH Generic Assessment Criteria for Human Health Risk Assessment 2<sup>nd</sup> Edition'*, Land Quality Press, Nottingham. These are also all based on a sandy loam soil.

Within the Environment Agency Science Report P5-080/TR3, Askari, K. & Pollard, S., 2005 *'The UK Approach for Evaluating Human Health Risks from Petroleum Hydrocarbons in Soils'* it is stated that the assessment values should not be considered individually; instead the potential additive effects should be calculated. This is achieved by calculating an individual Hazard Quotient (HQ) for each fraction. The HQ is the proportion of the assessment concentration represented by the recorded concentration. The HQs are then added together to form a Hazard Index (HI) and where this exceeds unity a potential significant risk to human health may exist.

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