



AGRICULTURAL LAND CLASSIFICATION  
SCARBOROUGH LOCAL PLAN  
NORTH YORKSHIRE  
(ADDITIONAL LAND AT EASTFIELD  
INDUSTRIAL ESTATE)  
OCTOBER 1994

ADAS  
Leeds Statutory Group

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## SUMMARY

A detailed Agricultural Land Classification survey of 10.4 ha of land at Eastfield, Scarborough, was carried out in October 1994.

All of the land falls in Subgrade 3b. Generally profiles are poorly drained with medium clay loam topsoils overlying slowly permeable heavy clay loam or clay subsoils at around 30 cm depth. This land is limited to Subgrade 3b by soil wetness.

In the east of the site the soils vary from moderately well to poorly drained, with organic or peaty topsoils of variable depth overlying slowly permeable clay or, in places, permeable sandy subsoils. This area is restricted to Subgrade 3b by soil wetness and by pattern limitation.

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1. AGRICULTURAL LAND CLASSIFICATION

# AGRICULTURAL LAND CLASSIFICATION REPORT: SCARBOROUGH LOCAL PLAN ADDITIONAL LAND AT EASTFIELD INDUSTRIAL ESTATE

## 1. INTRODUCTION AND SITE CHARACTERISTICS

### 1.1 Location and Survey Methods

The site lies approximately 6 km south of Scarborough town centre, between the village of Eastfield and the Scarborough-Filey railway line. It is centred in grid reference TA 037 828 and covers an area of 10.4 ha. Survey work was carried out in October 1994 when the soils were examined by hand auger borings at 100 m intervals predetermined by the National Grid. One soil pit was dug to allow the soil to be examined in greater detail. Land quality was assessed using the methods described in "Agricultural Land Classification of England and Wales: Revised guidelines and criteria for grading the quality of agricultural land" (MAFF, 1988).

### 1.2 Land Use and Relief

At the time of survey the west of the site was under cereal stubble and the east under permanent grass. The land lies at an average altitude of 30 m A.O.D. and is flat to gently sloping (0 - 3°) with variable aspect.

### 1.3 Climate

Grid Reference	: TA 037 828
Altitude (m)	: 30
Accumulated Temperature above 0°C (January - June)	: 1345 day °C
Average Annual Rainfall (mm)	: 665
Climatic Grade	: 1
Field Capacity Days	: 160
Moisture Deficit (mm) Wheat	: 106
Moisture Deficit (mm) Potatoes	: 96

#### 1.4 Geology, Soils and Drainage

This site is underlain by Kimmeridge Clay over which lie thick deposits of boulder clay (in the centre and west) and alluvium (in the east).

In the centre and west the soils are poorly drained (Wetness Class IV) with medium clay loam topsoils overlying heavy clay loam or clay subsoils. In the east of the site the soils vary from moderately well (Wetness Class II) to poorly drained (Wetness Class IV), with organic or peaty topsoils of variable depth overlying clay or, in places, sand, sandy loam or sandy clay loam.

2. AGRICULTURAL LAND CLASSIFICATION

The ALC grades occurring on this site are as follows:-

<u>Grade/Subgrade</u>	<u>Hectares</u>	<u>Percentage of Total Area</u>
1		
2		
3a		
3b	10.4	100.0
4		
5		
(Sub total)	(10.4)	(100.0)
Urban		
Non Agricultural		
Woodland - Farm		
- Commercial		
Agricultural Buildings		
Open Water		
Land not surveyed		
(Sub total)		
Total	<u>10.4</u>	<u>100</u>

2.1 Subgrade 3b

All of the land on this site falls in Subgrade 3b. In the centre and west the soils are poorly drained (Wetness Class IV) with medium clay loam topsoils overlying gleyed and slowly permeable heavy clay loam or clay subsoils at around 30 cm depth. This land is limited to Subgrade 3b by soil wetness restrictions.

In the east of the site the soils vary from moderately well (Wetness Class II) to poorly drained (Wetness Class IV). Typically organic medium clay loam or peaty loam topsoils overlie slowly permeable clay subsoils at between 25 cm and 65 cm depth, with permeable sandy subsoils also occurring in places. While some profiles in this part of the site meet the requirements for Grade 2, these cannot be mapped out as a separate unit and remaining areas are restricted to Subgrade 3b by soil wetness.

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MAP