



AGRICULTURAL LAND CLASSIFICATION  
CHEAPSIDE  
WALTHAM, HUMBERSIDE  
PROPOSED GOLF COURSE AND HOUSING DEVELOPMENT  
SEPTEMBER 1993

ADAS  
Leeds Statutory Group

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## SUMMARY

An Agricultural Land Classification of 59.9 ha of land near Waltham was carried out in September 1993.

21 ha was in agricultural production of which 13.1 ha falls within Subgrade 3a. Soils are well drained (Wetness Class 1) and consist of heavy textured topsoils over light textured subsoils. They are limited to Subgrade 3a by droughtiness.

Subgrade 3b land covers 7.9 ha. Soils are poorly drained (Wetness Class IV) and consist of heavy textured topsoils and subsoils limited to Subgrade 3b by soil wetness.

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1. AGRICULTURAL LAND CLASSIFICATION

AGRICULTURAL LAND CLASSIFICATION REPORT ON LAND AT CHEAPSIDE,  
WALTHAM  
PROPOSED GOLF COURSE AND HOUSING DEVELOPMENT

1. INTRODUCTION AND SITE

1.1 Location and Survey Methods

The site lies between Waltham and the disused airfield and is centred on National Grid Reference TA 270 030. Survey work was carried out in September 1993 when soils, in the undisturbed parts of the site, were examined by hand auger borings at a density of approximately one very two hectares. Extra borings were made, where necessary, to refine grade boundaries and two inspection pits were dug to determine subsoil structure. Land quality was assessed using the methods described in "Agricultural Land Classification of England and Wales: Revised criteria for grading the quality of agricultural land" (MAFF, 1988).

1.2 Land Use and Relief

At the time of survey 21% of the site was in agricultural use, all of which had been under arable crops this year. The remainder consisted of the partially constructed and excavated golf course, along with smaller areas of non agricultural land.

Site altitude is 20 m AOD and the land is level to gently sloping (0 - 3°).

1.3 Climate

Grid Reference	:	TA270 030
Altitude (m)	:	20
Accumulated Temperature above 0°C (January - June)	:	1386 day °C
Average Annual Rainfall (mm)	:	654
Climatic Grade	:	1
Field Capacity Days	:	146
Moisture Deficit (mm) Wheat	:	106
Moisture Deficit (mm) Potatoes	:	98

#### 1.4 Geology, Soils and Drainage

The site is underlain by chalk over which there is a thick cover of till and glaciofluvial drift.

Two soils types occur on the site. The most wide spread consists of well drained (Wetness Class I) medium or heavy textured topsoils (medium clay loam, sandy clay loam or heavy clay loam) over permeable light textured subsoils (loamy medium sand or medium soil).

The second soil type consists of poorly drained (Wetness Class IV) heavy clay loam topsoils over gleyed slowly permeable heavy clay loam or clay subsoils. These soils are similar to those in the Holderness Association as mapped by the Soil Survey and Land Research Centre.

## 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	13.1	21.9
3b	7.9	13.2
4	-	
5	-	
(Sub total)	(21.0)	(35.1)
Urban	31.7)	52.9
Non Agricultural	5.9	9.8
Woodland - Farm	-	
- Commercial	-	
Agricultural Buildings	-	
Open Water	1.3	2.2
Land not surveyed	-	
(Sub total)	(38.9)	(64.9)
	<u>          </u>	<u>          </u>
TOTAL	59.9	100%
	<u>          </u>	<u>          </u>

2.1 Subgrade 3a

Most of the agricultural land on the site falls within Subgrade 3a. Profiles are well drained (Wetness Class 1) and consist of medium or heavy clay loam topsoils over loamy medium sand or medium sand subsoils. Weathered chalk stones occur in places below about 80 cm depth. This land is limited to Subgrade 3a by droughtiness.

2.2 Subgrade 3b

Just over one third of the agricultural land on the site falls within Subgrade 3b. Profiles are poorly drained (Wetness Class IV) and consist of heavy clay loam topsoils over gleyed slowly permeable heavy clay loam or clay subsoils. The land is limited to Subgrade 3b by soil wetness and workability problems.

2.3 Urban

This category consists largely of land that has been disturbed, stripped or excavated during the partially completed construction of the golf course.

2.4 Non Agricultural

This consists mainly of a derelict camp site.

2.5 Open Water

This consists of ponds dug during the golf course construction.

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