AGRICULTURAL LAND CLASSIFICATION
BEVERLEY BOROUGH LOCAL PLAN
TRANBY PARK FARM, HESSLE
HUMBERSIDE
MAY 1993

ADAS
Leeds Statutory Group

Job No: 98/93

tranby.doc.nmc

SUMMARY

An Agricultural Land Classification survey of 42.1 ha of land at Tranby Park Farm, Hessle was carried out in May 1993.

Grade 2 land covers 24.7 ha. Soils are mainly moderately well drained (Wetness Class II) and consist of medium clay loam and medium sandy loam topsoils overlying permeable sandy clay loam and medium clay loam upper subsoils which in turn overlie slowly permeable heavy clay loam lower subsoils. Soils are limited to Grade 2 by slight soil wetness and variability.

Subgrade 3a land covers 7.5 ha. Soils are imperfectly drained (Wetness Class III), and consist of medium clay loam topsoils over slightly mottled slowly permeable heavy clay loam subsoils. These soils are limited to Subgrade 3a by wetness.

Subgrade 3b land covers 1.9 ha. Soils are poorly drained (Wetness Class IV), consisting of medium clay loam topsoils overlying gleyed slowly permeable heavy clay loam subsoils. Soils are limited to Subgrade 3b by wetness and workability problems.

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1. INTRODUCTION AND SITE CHARACTERISTICS

1.1 Location and Survey Methods

The site lies approximately 9km West of Hull City Centre adjacent to the A164 around National Grid Reference TA081270. Survey work was carried out in May 1993 when soils were examined by hand auger borings at a density of 1 boring per hectare at points predetermined by the National Grid. 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 the survey all agricultural land was in permanent pasture. The remaining land consisted of urban land and woodland. Site altitude varies from 40m AOD to 50m AOD and the land is almost level (0-1°).

1.3 Climate

Grid Reference	: TA 081 270
Altitude (m)	: 45
Accumulated Temperature above 0°C (January-June)	: 1354 day °C
Average Annual Rainfall (mm)	: 672
Climatic Grade	: 1
Field Capacity Days	: 147
Moisture Deficit (mm) Wheat	: 103
Moisture Deficit (mm) Potatoes	: 93

1.4 Geology, Soils and Drainage

The area is underlain by chalk over which there is a covering of till. The majority of soils are moderately well drained (Wetness Class II), consisting of medium clay loam and medium sandy loam topsoils, overlying permeable sandy clay loam or medium clay loam upper subsoils. Lower subsoils consist of slowly permeable heavy clay loam with the slowly permeable layer occurring between 50 and 70 cm depth.

Four separate smaller areas of imperfectly drained (Wetness Class III) soils occur on the site. Soil profiles consist of medium clay loam topsoils and upper subsoils overlying, at a little over 40 cm depth, gleyed slowly permeable heavy clay loam subsoils.

A small area of poorly drained land (Wetness Class IV) occurs in the Northern part of the site. Soils consist of medium clay loam topsoils over at less than 40 cm depth, gleyed slowly permeable heavy clay loam subsoils.

2. AGRICULTURAL LAND CLASSIFICATION

The ALC grades occurring on this site are as follows:

Grade / Subgrade	Hectares	Percentage of Total Area
1		
2	24.7	58.6
3a	7.5	17.8
3b	1.9	4.5
4		
5		
(Sub total)	(34.1)	(80.9)
Urban	2.0	4.8
Non Agricultural	5.6	13.3
Woodland - Farm		
- Commercial		
Agricultural Buildings	0.4	1.0
Open Water		
Land not surveyed		
(Sub total)	(8.0)	(19.1)
TOTAL	**42.1**	**100**

2.1 Grade 2

Land in this grade is widespread across the site. Topsoils consist of very slightly stony medium clay loam or medium sandy loam overlying unmottled permeable sandy clay loam and medium clay loam upper subsoils. Gleyed slowly permeable heavy clay loam lower subsoils occur at between 50 and 65 cm depth. Profiles are moderately well drained (Wetness Class II) and are limited to Grade 2 by slight wetness and variability

2.2 Subgrade 3a

Land in this subgrade occurs in four small areas across the site. Topsoils and upper subsoils consist of very slightly stony medium clay loam overlying heavy clay loam lower subsoils. Profiles are gleyed at 40-45 cm depth and slowly permeable between 45 and 65 cm depth. They are limited to Subgrade 3a by soil wetness.

2.3 Subgrade 3b

Land in this subgrade occurs in a small area in the northern part of the site. Topsoils consist of very slightly stony medium clay loam overlying poorly drained (Wetness Class IV) gleyed slowly permeable heavy clay loam subsoils at about 35 cm depth. They are limited to Subgrade 3b by soil wetness and workability problems.

2.4 Non-Agricultural

Non-agricultural land consists largely of various areas of farm woodland.

2.5 Urban

This consists of private dwellings, gardens and metalled access roads.

2.6 Farm Buildings

Barns and other buildings at Tranby Park Farm are placed within this category.

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