

**AGRICULTURAL LAND CLASSIFICATION  
GREENLANDS, BROCK**

**Resource Planning Team  
ADAS Statutory Group  
WOLVERHAMPTON**

**Job No: 39/93  
MAFF Ref: 21/10135**

# AGRICULTURAL LAND CLASSIFICATION REPORT FOR GREENLANDS, BROCK

## 1 SUMMARY

1.1 The Agricultural Land Classification (ALC) Survey for this site shows that the following proportions of ALC grades are present:

Subgrade 3a	3.6 ha	(16.7 % of the site)
Subgrade 3b	14.3 ha	(66.5 % of the site)
Other land	3.6 ha	(16.7 % of the site)

1.2 The main limitations to the agricultural use of land in Subgrade 3a are soil wetness and topsoil stone content.

1.3 The main limitation to the agricultural use of land in Subgrade 3b is soil wetness.

## 2 INTRODUCTION

2.1 The site was surveyed by the Resource Planning Team in July 1993. An Agricultural Land Classification survey was undertaken according to the guidelines laid down in the "Agricultural Land Classification of England and Wales - Revised Guidelines and Criteria for Grading the Quality of Agricultural Land" (MAFF 1988).

2.2 The 21.5 ha site lies to the West of the A6 road and is bounded by the Lancaster Canal and bisected by the River Brock.

2.3 The survey was requested by MAFF in connection with an ad-hoc development for a marina.

2.4 At MAFF Land Use Planning Unit's request this was a detailed grid survey at 1:10000 with a minimum auger boring density of 1 per hectare. The map is only accurate at the base map scale and any enlargement would be misleading.

2.5 At the time of the survey the site was under grass.

### 3 CLIMATE

3.1 The following data are relevant for the site:

Average Annual Rainfall	1110 mm
Accumulated Temperature above 0°C January to June	1356 day °C

3.2 There is no overall climatic limitation on the site.

3.3 Other relevant data for classifying the land includes:

Field Capacity Days	243 days
Moisture Deficit Wheat	61 mm
Moisture Deficit Potatoes	42 mm

### 4 SITE

4.1 Three site factors of gradient, microrelief and flooding are assessed when grading land.

4.2 These factors do not impose any limitations on the agricultural use of the land.

### 5 GEOLOGY AND SOILS

5.1 The drift geology is mapped as alluvium deposits (British Geological Survey, Sheet 67/D, 1:10000).

5.2 The underlying geology influences the soils which have a sandy texture.

## 6 AGRICULTURAL LAND CLASSIFICATION

6.1 Subgrade 3a - occupies 3.6 ha (16.7 %) of the survey area and is found to the south of the River Brock and in the most northern corner of the site.

6.1.1 These soils typically have a sandy loam texture overlying sandy loam to depth or loamy sand below 40 cm. The soils are gleyed below 40 cm, have no slowly permeable layer and fall into Wetness Class II. To the south of the River Brock the topsoil stone content limits the land to Subgrade 3a.

6.1.2 The main limitations to the agricultural use of the land are soil wetness and topsoil stone content.

6.2 Subgrade 3b - occupies 14.3 ha (66.6%) of the survey area.

6.2.1 The soils have a sandy loam texture overlying clay loam with clay present below 80 cm. The soils are gleyed above 40 cm and fall into Wetness Class III.

6.2.2 The main limitation to the agricultural use of this land is soil wetness.

6.3 Other land includes a lagoon, farm buildings and surrounding areas.

### 6.4 SUMMARY OF AGRICULTURAL LAND CLASSIFICATION GRADES

Grade/Sub Grade	Area in Hectares	% of Survey Area	% of Agricultural Land
3a	3.6	16.7	20.1
3b	14.3	66.6	79.9
Other land	3.6	16.7	
<b>Totals</b>	<b>21.5</b>	<b>100.0</b>	<b>100.0</b>

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