AGRICULTURAL LAND CLASSIFICATION

SOUTH TYNESIDE UDP
SITE A, LAND AT PIKES HOLE FARM
HEBBURN, TYNE & WEAR

MAFF

Leeds Regional Office

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1. AGRICULTURAL LAND CLASSIFICATION

AGRICULTURAL LAND CLASSIFICATION REPORT, LAND AT PIKES HOLE FARM, HEBBURN, TYNE AND WEAR

## 1.0 Introduction and Site Characteristics

#### 1.1 Location

National Grid Reference:-

NZ 323615

Location Details:-

3 km south of Hebburn town centre, South

Tyneside.

Site Size:-

142 ha

#### 1.2 Survey Methods

Date Surveyed:-

February 1992

Boring Density and Spacing Basis:-

One Boring per hectare at 100m intervals at points predetermined by

the National Grid.

Sampling Method:-

By hand auger to a depth of 1.00m

Number of Borings:-

136

All land quality assessments were made 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)".

This detailed survey supersedes the previous "1" to one mile" survey of the area.

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Mainly arable and ley grassland but with smaller areas of farm buildings, urban and non-agricultural land.

#### 1.4 Climate and Relief

Average Annual Rainfall (AAR):-

635 mm

Accumulated Temperature above

0°C (January-June):-

1322 day °C

Field Capacity Days:-

156 days

### Moisture Deficit:

wheat:-

potatoes:-

97 mm

84 mm

Altitude average:-

maximum:-

minimum:-

40 m a.o.d.

52 m a.o.d.

30 m a.o.d.

Climatic limitation (based on interaction of rainfall and temperature values:-

None

Relief:-

Slopes (° ):-

Gradient Limitations:-

Flat to gently sloping

0 - 3°

None

## 1.5 Geology and Soil

Solid Strata:-

Carboniferous coal measures.

Depth of solid rock from surface:-

Greater than 1.00m over the whole site.

Drift types:-

Lacustrine clay.

Thickness of drift and distribution:-

Greater than 1.00m over the whole site.

Soil Types and Distribution:-

Medium to heavy-textured soils cover the entire site.

Soil Textures (topsoils
and subsoils):-

Generally medium clay loam or heavy clay loam topsoils overlying heavy clay loam or clay subsoils.

Soil Series/Associations:-

On 1/250000 map:-

Identified on site:-

Foggathorpe I

Foggathorpe I

Soil Limitations and type:-

Soil wetness and workability.

#### 1.6 Drainage

Soil type and Wetness Class:-

All of the soils on the site are imperfectly or poorly drained (Wetness Classes III and IV).

Drainage Limitations:-

Slowly permeable layers generally begin at between 35cm and 50cm depth thus limiting the land to subgrades 3a and 3b.

# 2.0 Agricultural Land Classification Grades

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

Grade/Subgrade	Hectares	Percentage of	Percentage of	
		Agricultural Area	Total Area	
1				
2				
3a	7.1	5.2	5.0	
3b	129.4	94.8	90.9	
4				
5				
Non Agricultural	3.34		2.3	
Agricultural Buildings	1.08		0.8	
Urban	1.48		1.0	
Other				
Total	142.3	100	100	

Subgrade 3a

Distribution on site:- Two separate areas, one around West Fellgate Farm in

the north and one to the north of Boldon Fellgate

Farm in the south.

Soil Types and Textures: - Medium to heavy-textured soils which generally consist

of medium clay loam topsoils over heavy clay loam

upper subsoils and clay lower subsoils.

Depth to Slowly Permeable

Layers:- Slowly permeable layers generally begin at around 50cm

depth.

Wetness and Drainage

Class:- Soils are imperfectly drained, falling in Wetness

Class III.

Stone Percentage and

Type:- Profiles are stoneless to very slightly stony with up

to 3% small rounded hardstones.

Grading Limiting Factors:- Soil wetness and workability.

## Subgrade 3b

Distribution on site:- Land in this subgrade covers most of the site.

Soil Types and Textures: - Medium to heavy-textured soils, generally consisting

of medium clay loam or heavy clay loam topsoils

overlying heavy clay loam or clay subsoils.

Depth to Slowly Permeable

Layers:- Slowly permeable layers generally begin at around 35cm

depth.

Wetness and Drainage

Class:- Soils are poorly drained, falling in Wetness class

IV.

Stone Percentage and

Type:- Profiles are stoneless to very slightly stony with up

to 3% small rounded hard stones.

Grade Limiting Factors: - Soil wetness and workability.

Non Agricultural

Type and location of land included:-

Five small areas of scrubland and parkland, principally in the north and east of the site.

Agricultural Buildings

Type and location of building included:-

The farm buildings at Pikes Hole Farm and Boldon Fellgate Farm in the southeast of the site, and at West Fellgate in the northwest.

Urban

Type of land use included:-

Houses and buildings at Laverick Hall Farm.

MAP