AGRICULTURAL LAND CLASSIFICATION

KELFIELD LODGE FARM, NABURN NORTH YORKSHIRE

PROPOSED GOLF COURSE DEVELOPMENT

MAFF Leeds Regional Office

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September 1991 File Ref: 2FCS 5516 Project No: 79/91

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1. AGRICULTURAL LAND CLASSIFICATION

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AGRICULTURAL LAND CLASSIFICATION REPORT

1.0 Introduction and Site Characteristics

1.1 Location

| National Grid Reference:- | SE 601445 |
|---------------------------|---|
| Location Details:- | $1\frac{1}{2}$ km south of the village of |
| | Naburn and $7\frac{1}{2}$ km south of |
| | York City Centre. |
| | |

Site Size:-

1.2 Survey Methods

Date Surveyed: -

Boring Density and Spacing Basis:- One boring per hectare at 100 m intervals at points predetermined by the National Grid.

Sampling Method:- By hand auger, to a depth of 1.00 m.

Number of Borings:-

68

76 ha

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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)".

1.3 Land Use:-

Mainly arable (potatoes, sugar beet and cereals) along with some small areas of mixed woodland.

1.4 Climate and Relief

Average Annual Rainfall (AAR):-594 mm Accumulated Temperature above 0°C (January-June):-1395 day °C Field Capacity Days:-129 days Altitude average:-10 m a.o.d. maximum:-11 m a.o.d. minimum:-8 m a.o.d. Climatic limitation (based on interaction of rainfall and temperature values:-None Relief:-Flat Slopes (°):-0-1° Gradient Limitations:-None

1.5 Geology and Soil

Solid Strata:-Bunter sandstone.Depth of solid rock from surface:-Several metres.Drift types:-Sand (including blown sand).Thickness of driftSeveral metres over the whole

site.

Soil Types and Distribution:- Mainly light textured soils to depth but with some medium and heavy textured soils in the south western part of the site.

Soil Textures (topsoils and subsoils):- The light textured soils consist of loamy fine sand topsoils (or occasionally medium sandy loam) over similarly textured subsoils. The medium and heavy textured soils consist of medium clay loam or heavy clay loam topsoils over heavy clay loam or clay subsoils.

Soil Series/Associations:-On 1/250000 map:-Identified on site:-

Soil Limitations and type:- Soil wetness on the heavier textured soils; wind erosion risk and droughtiness on the light textured land.

1.6 Drainage

Soil type and Wetness Class:-The light textured soils fall in Wetness Class I and the medium to heavy textured soils in Wetness Class III. Drainage Limitations:-Soil wetness caused by slowly

permeable subsoils, limits some soils (mainly in the south west of the site) to subgrades 3a and 3b.

2.0 Agricultural Land Classification Grades

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

| <u>Grade/Subgrade</u> | Hectares | Percentage of | Percentage of Total |
|-----------------------|----------|-------------------|---------------------|
| | | Agricultural Area | Area |
| 2 | 5 2 | 7 28 | 6.9 |
| 2 3a | 62.5 | 87.54 | 81.8 |
| 3b | 3.7 | 5.18 | 4.8 |
| Non Agricultural | 4.3 | - | 5.6 |
| Urban | 0.7 | - | 0.9 |
| Other | | | |
| Total | 76.4 | 100 | 100 |
| | | | |

Grade 2

Distribution on site:- A small area in the south west of the site.

Soil Type(s) and Texture(s):-

Depth to Slowly Permeable Layers:- None present.

sand subsoils.

Wetness and Drainage Class:-

Stone Percentage and Type:-

Grade Limiting Factors:-

These soils are well drained, falling in Wetness Class I.

Fine sandy loam or medium sandy loam topsoils over loamy fine sand or fine

Profiles are generally stoneless.

Factors:- Soil droughtiness.

Grade Limiting Factors:-

Stone Percentage and Type:-

fall within Wetness Class III.

Wetness and Drainage Class: -

Subgrade 3a

Distribution on site:-

Soil Type(s) and Texture(s):-

especially in the east. Depth to Slowly Permeable Layers:-In the medium and heavy textured

> soils, slowly permeable layers occur at depths of around 30 cm. There are

no slowly permeable layers in the

The light textured soils are well drained and fall within Wetness

Class I, the heavier textured soils

clay loam or clay subsoil) occur scattered throughout the site,

(medium clay loam topsoil over heavy

light textured soils.

western corner.

Subgrade 3a soils cover the entire site with the exception of the south

Generally loamy fine sand topsoils

over similarly textured subsoils. Some medium to heavy textured soils

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Most profiles are stoneless.

Wind erosion risk and droughtiness on the widespread light textured land and soil wetness on the small areas of heavier textured soil.

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Subgrade 3b

Distribution on site:-
A small area in the south western corner of the site.

Soil Type(s) and Texture(s):-
Heavy clay loam topsoils overlying heavy clay loam or clay subsoils.

Depth to Slowly Permeable Layers:-
Slowly permeable layers occur below about 30 cm depth.

Wetness and Drainage Class:-
Soils in this subgrade fall within Wetness Class III.

Stone Percentage and Type:-
Profiles are stoneless.
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Grade Limiting Factors:-

Soil wetness and workability.

Non Agricultural

Type and location of land included:- Several small areas of woodland in the east, west and south, and a small area of wasteland in the north.

Urban

Type of land use included:-

Grange Garth House on the northern edge of the site and a farm track in the north west.

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