# MYTON LANE, THOLTHORPE 

NORTH YORKSHIRE
Proposed mineral extraction and infilling

| MAFF | February 1992 |
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AGRICULTURAL LAND CLASSIFICATION REPORT, Myton Lane, Tholthorpe, N Yorkshire

### 1.0 Introduction and Site Characteristics

### 1.1 Location

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National Grid Reference:-
Location Details:-
Site Size:-
SE 466665
7 km SW of Easingwold
4 hectares
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### 1.2 Survey Methods

Date Surveyed:-

31 January 1992
Boring Density and Spacing Basis:-

At 75 m intervals on a grid pattern predetermined by the National Grid

Sampling Method:-

Number of Borings:-
By hand auger boring to a depth of 1 metre 7

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Number of Soil Pits (used for):-
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1 soil inspection pit was dug to examine soil structure and to take samples for laboratory analysis.

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. under winter cereal production. Some land was being worked for sand and gravel.

### 1.4 Climate and Relief

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Average Annual Rainfall (AAR):-
Accumulated Temperature above
0'C (January-June):-
1366 day *}\mp@subsup{}{}{\circ}\textrm{C
Field Capacity Days:-
1 4 4 ~ d a y s
Moisture Deficit:
    wheat:- }103\mathrm{ mm
    potatoes:- }94\textrm{mm
Altitude average:-
    maximum:-
    minimum:-
    30 m a.o.d.
    30 m a.o.d.
    28 m a.o.d.
Climatic limitation (based on
interaction of rainfall and
temperature values:-
Relief:-
    Gently undulating
Slopes (` ):-
Gradient Limitations:-
0-50
None
```


### 1.5 Geology and Soil

Solid Strata:-

Depth of solid rock from surface:-

Drift types:-

Thickness of drift
and distribution:-

Soil Types and Distribution:-

Soil Textures (topsoils and subsoils):-

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

Soil Limitations and type:-
1.6 Drainage

Soil type and Wetness Class:-

Drainage Limitations:-

Bunter sandstone

Greater than 1 metre

Acolian and glacial sand and gravel.

Greater than 1 metre over the whole site.

Well drained "brown sands" cover the whole site.

Soils consist of fine sandy loam or loamy fine sand topsoils over similar or lighter subsoils.

Newport I

Topsoil stoniness is limiting in places.

All soils are well drained and fall within Wetness Class I.

None

### 2.0 Agricultural Land Classification Grades

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

| Grade/Subgrade | Hectares | Percentage of |
| :---: | :---: | :---: | Percentage of Total

1
2
3a
3.5

100
83.3

3b
4
5
Non Agricultural
Agricultural Buildings
Urban 0.
other

Total
4.2

100
100

| Subgrade 3a |  |
| :---: | :---: |
| Distribution on site:- | The whole site falls within this subgrade. |
| Soil TYpe(s) and Texture(s) :- | Light soils consisting of loamy fine sand topsoils over similar or lighter subsoils |
| Depth to Slowly Permeable |  |
| Layers:- | None present. |
| Wetness and Drainage Class:- | Wetness Class I (well drained). |
| Stone Percentage and Type:- | 5-15\% small and medium hardstones. |
| Grade Limiting Factors:- | Topsoil stoniness, droughtiness and susceptibility to wind erosion. |

## Urban

Type of land use included:-

Land in the eastern corner being worked at present for sand and gravel.

### 3.1 Soil Properties

One soil type occurs on the site. Its distribution along with soil depth and quantity information is shown on the accompanying maps.

Soil Type 1:- Fine sandy topsoil over similar subsoil.

Occurrence:- Over the whole site.

Textures:- Loamy fine sands and fine sandy loams.

Stone content:- 5-15\% in the topsoil passing to similar subsoils with occasionally even stonier horizons.

Horizon thicknesses:- Topsoils: mean 40 cm with subsoils extending to at least 1 m depth.

Profile pit features:- Weakly developed sub-angular topsoil structure over very weakly developed to loose subsoil structure.

### 3.2 Soil Resources

Topsoils
Unit T1

Texture/stone content:- Loamy fine sand or fine sandy loam with 5-15\% stones.

Structure:- Weakly developed fine sub-angular blocky.

Occurrence:- Over the whole site.

Thickness:-
40 cm mean
7
lds.AL5. Myton. Lne

Subsoils
Unit S1

| Texture/stone content:- | Very light with $5-50 \%$ stones. |
| :--- | :--- |
| Structure:- | Very weakly developed sub-angular blocky to |
|  | loose. |
| Occurrence:- | Over the whole site. |
| Thickness:- | Mean:- 60 cm. |

### 4.0 SOIL PROPILE DESCRIPTION

Pit 1. Fine sandy soil
Location: Between borings 2 and 4
Weather: Cold, foggy
Slope: $\quad 0^{\circ}$
Land Use: Cereals

## DEPTH (Cm)

$0-30$
$30-100$

## PROFILE DESCRIPTION

Dark greyish brown (10 YR 4/2) fine sandy loam; unmottled; slightly stony with small and medium sub-rounded medium hard rocks and stones; low packing density; moist; weakly developed fine sub-angular blocky structure; moderately porous with common fine pores and fissures; friable; non-sticky; non plastic; many fine fibrous roots; clear smooth boundary.

Dark yellowish brown (10 YR 4/6) loamy fine sand; unmottled; very slightly stony with sub-rounded medium hard rocks and stones; low packing density; moist; very weakly developed fine to medium sub-angular blocky structure; moderately porous with common fine and medium pores and fissures; very friable; non-sticky; non plastic; common fine fibrous roots.

