

AGRICULTURAL LAND CLASSIFICATION
STATEMENT OF PHYSICAL CHARACTERISTICS

LICKAR LEA, BERWICK, NORTHUMBERLAND
Proposed Opencast Coal Site

ADAS
Leeds Regional Office

October 1989
Ref: 4573.65/89

2 fcs 4573

lds.RP1Brwck.rpt

CONTENTS

1. Agricultural Land Classification
2. Statement of Physical Characteristics (Soil Properties and Resources)

MAPS

1. Agricultural Land Classification
2. Topsoil Resources
3. Subsoil Resources

medium clay loam topsoils over clayey slowly permeable subsoils (Wetness Class IV).

Disturbed areas generally contain a heavy clay loam topsoil over a clayey subsoil (Wetness Class IV), which in turn overlies compacted, clayey overburden material at between 80 and 100 cm depth. The disturbed and undisturbed areas form a complex pattern which cannot be accurately delineated. As both also have similar wetness and workability limitations they have been grouped into one soil type on the accompanying resource maps.

1.3 Agricultural Land Classification

1.3.1 Subgrade 3a (1.2 ha, 8% of total area)

The small area of subgrade 3a at the western end of the site contains profiles with fine loamy topsoils over gleyed, coarse loamy subsoils. The main limitations on ALC grade are soil wetness and workability problems which, however, are not as restricting as on the adjoining subgrade 3b land.

1.3.2 Subgrade 3b (13.6 ha, 92% of total area)

All remaining land (disturbed and undisturbed) falls within subgrade 3b. Topsoils are mainly fine loamy and overlie clayey, slowly permeable subsoils. Soil wetness and workability problems are the overriding limiting factors on this land.

Resource Planning Group

October 1989

2.0 Statement of Physical Characteristics

As the disturbed and natural soils on the site are both derived largely from boulder clay, are fairly similar texturally and have the same wetness and workability limitations, they have been grouped and described below as one soil unit.

2.1 Topsoil

This consists of medium or heavy clay loam, or occasionally sandy clay loam, containing a few subangular sandstones. It is unmottled with a moderately developed medium and coarse subangular blocky structure and has a mean thickness of 30 cm. It corresponds with unit T1 on the accompanying topsoil resource map.

2.2 Subsoil

This consists of heavy clay loam with pockets and lenses of sandy clay loam. It is very slightly stony with a few subangular sandstones, is distinctly mottled and has a coarse angular blocky structure becoming coarse prismatic at depth. Occasionally, weathering sandstone bedrock or restored clayey overburden occurs between 80 cm and 100 cm depth. This unit corresponds with S1 on the accompanying subsoil resource map.