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Test Valley Borough Local Plan
Site 355 008 North Baddesley Hampshire
Agricultural Land Classification
ALC Map and Report
July 1993

TEST VALLEY BOROUGH LOCAL PLAN SITE 355-008 NORTH BADDESLEY HAMPSHIRE

AGRICULTURAL LAND CLASSIFICATION REPORT

1 Summary

- In May 1993 a detailed Agricultural Land Classification (ALC) was made on approximately 18 hectares of land at Nutburn near North Baddesley Hampshire
- The work was conducted by members of the Resource Planning Team in the Guildford Statutory Group of ADAS in response to a commission by MAFF's Land Use Planning Unit to provide information on the quality of agricultural land affected by proposals for development in the Test Valley Borough Local Plan
- The classification has been made using MAFF's revised guidelines and criteria for grading the quality of agricultural land (MAFF 1988). These guidelines provide a framework for classifying land according to the extent to which its physical or chemical characteristics impose long-term limitations on its use for agriculture.
- 1 4 The fieldwork was carried out with an observation density of approximately one per hectare A total of 16 borings and 1 soil pit were examined
- The land on at this site consists of Grade 2 (very good quality) Subgrade 3a (good quality) and Subgrade 3b (moderate quality) The Grade 2 land towards the south-east of the site is limited by wetness evidenced by gleying over a deep slowly permeable clay layer. The Subgrade 3a land extends across the centre and towards the north of the site and is also limited by wetness evidenced by shallow gleying over a slowly permeable clay layer. The remaining area of this quality has been graded on the basis of a high groundwater table. The severity of the problem was assessed by the depth of soil saturation present at the time of the survey. The Subgrade 3b land covers the remainder of the site and is characterised by wet vegetation indicating a significant degree of waterlogging. The soils were found to be saturated at a shallow depth at the time of the survey.

Table 1 Distribution of Grades and Subgrades

<u>Grade</u>	Area(ha)	% of Site	% of Agricultural Area
2	1 2	67	90
3a	4 8	26 8	37 3
3b	<u>69</u>	38 6	<u>53 7</u>
Non Agricultural	17	9 5	100% (12 9 ha)
Woodland	0 2	1 1	
Urban	<u>3 1</u>	<u>17 3</u>	
Total	17 9 ha	100%	

- The distribution of the ALC grades is shown on the attached map. The information is presented at a scale of 1 5 000 it is accurate at this level but any enlargement would be misleading. This map supersedes any previous ALC information for this site.
- 1 7 At the time of survey the land was in permanent rough grazing and being grazed by horses
- A general description of the grades and subgrades is provided as an appendix The main classes are described in terms of the type of limitation that can occur the typical cropping range and the expected level and consistency of yield

2 Climate

- 2 1 The climatic criteria are considered first when classifying land as climate can be overriding in the sense that severe limitations will restrict land to low grades irrespective of favourable site or soil conditions
- The main parameters used in the assessment of the overall climatic limitation are annual average rainfall as a measure of overall wetness and accumulated temperature as a measure of the relative warmth of a locality
- A detailed assessment of the prevailing climate was made by interpolation from a 5km gridpoint dataset (Met Office 1989) The details are given in the table below and these show that there is no overall climatic limitation affecting the site
- 2.4 No local climatic factors such as exposure or frost risk affect the site

Table 2 Climatic Interpolations

Grid Reference	SU393203	SU397204
Altıtude (m)	41	45
Accumulated Temperature (days	s) 1507	1503
Average Annual Rainfall (mm)	820	820
Field Capacity (days)	174	174
Moisture Deficit Wheat (mm)	107	107
Moisture Deficit Potatoes (mm)	101	101
Overall Climatic Grade	1	1

3 Relief

The land within the survey area lies between 41m and 48m AOD and was in the form of a shallow valley Gentle slopes rise to the north and south away from the open drain across the centre of the site. At no point does gradient represent a limitation to agricultural land quality.

4 Geology and Soil

- The published geological sheet (British Geological Survey 1973 Sheet 315 Southampton) for the site shows it to be underlain with Eocene Bracklesham Beds glauconitic evenly bedded clays loams and sands
- The main soil type occurring on the site as shown by the Soil Survey map of South East England Sheet 6 (SSEW 1983 1 250 000) was found to be the Wickham 3 association a seasonally waterlogged clayey soil with slowly permeable sub surface horizons

5 Agricultural Land Classification

- Table 1 provides the details of the area measurements for each grade and the distribution of each grade is shown on the attached ALC map
- The location of the soil observation points is shown on the attached sample point map

Grade 2

Land of this quality covers a small area to the south-east of the site. It is slightly limited by wetness to Wetness Class II (see Appendix II) by evidence of gleying in the heavy clay loam subsoil below 40 cm. over a deep (c. 80 cm) slowly permeable clay layer similar to that found in Pit 1 at moderate depth (See Appendix III). This with a medium clay loam topsoil means that the land can be classified no higher than Grade 2.

Subgrade 3a

Land of this quality covers approximately one third of the agricultural area of the site. The key limitation is soil wetness evidenced in one of two forms. Firstly towards the centre of the site, there is evidence of shallow gleying in a heavy clay loam subsoil beneath a medium clay loam topsoil. This occurs over a slowly permeable clay layer at moderate depth as observed in Pit 1 (see Appendix III). Secondly towards the north of the site the land has been graded on the basis of the depth to the water table at the time of survey along with gleying found at moderate depth. The water table was encountered around 65 cm. during May suggesting that the profile is wet within 70 cm for more than 180 days in most years. The soils are placed in Wetness Class III and this in combination with the topsoil texture (medium clay loam). limits the land to Subgrade 3a at the prevailing Field Capacity level (174 days).

Subgrade 3b

The majority of the agricultural area is classified as this grade on the basis of a wetness limitation. Where gleying is evidenced in the medium clay loam topsoil and upper subsoil overlying a slowly permeable clay subsoil the soils are placed in Wetness Class IV (see Appendix III). Soils with a shallow water table have also been placed in Wetness Class IV and have been assessed as being likely to be wet within 40cm depth for

91-210 days in most years The grading is based on the severity of restrictions on cultivation or grazing by livestock, as well as how plant growth is affected by in this case, wetness within the soil. The lower the grading the greater the risk of structural damage to the soil by trafficking and the higher the likelihood of plant growth being inhibited by poor seed germination and development due to excess water in the soil.

The area marked as Non-agricultural is an area of scrubby marshland which is partially covered with brambles and willows over rough marsh grasses

ADAS Reference 1512/68/93 MAFF Reference EL6105

Resource Planning Team Guildford Statutory Group ADAS Reading

SOURCES OF REFERENCE

- British Geological Survey (1973) Sheet 315 Southampton, 1 50 000 Drift edition
- MAFF (1988) Agricultural Land Classification of England and Wales Revised guidelines and criteria for grading the quality of agricultural land
- Meteorological Office (1989) Climatic datasets for Agricultural Land Classification
- Soil Survey of England and Wales (1980) Soils of Kent 1 250 000 map and accompanying legend

APPENDIX I

DESCRIPTION OF THE GRADES AND SUB-GRADES

Grade 1 Excellent Quality Agricultural Land

Land with no or very minor limitations to agricultural use. A very wide range of agricultural and horticultural crops can be grown and commonly includes top fruit soft fruit salad crops and winter harvested vegetables. Yields are high and less variable than on land of lower quality

Grade 2 Very Good Quality Agricultural Land

Land with minor limitations which affect crop yield cultivations or harvesting. A wide range of agricultural or horticultural crops can usually be grown but on some land on the grade there may be reduced flexibility due to difficulties with the production of the more demanding crops such as winter harvested vegetables and arable root crops. The level of yield is generally high but may be lower or more variable than Grade 1

Grade 3 Good To Moderate Quality Agricultural Land

Land with moderate limitations which affect the choice of crops timing and type of cultivation harvesting or the level of yield. When more demanding crops are grown yields are generally lower or more variable than on land in grades 1 and 2

Subgrade 3a Good Quality Agricultural Land

Land capable of consistently producing moderate to high yields of a narrow range of arable crops especially cereals or moderate yields of a wide range of crops including cereals grass oilseed rape potatoes sugar beet and the less demanding horticultural crops

Sub-grade 3b Moderate Quality Agricultural Land

Land capable of producing moderate yields of a narrow range of crops principally cereals and grass or lower yields of a wider range of crops or high yields of grass which can be grazed or harvested over most of the year

Grade 4 Poor Quality Agricultural Land

Land with severe limitations which significantly restrict the range of crops and/or the level of yields. It is mainly suited to grass with occasional arable crops (eg cereals and forage crops) the yields of which are variable. In moist climates, yields of grass may be moderate to high but there may be difficulties in utilisation, the grade also includes very droughty arable land.

Grade 5 Very Poor Quality Agricultural Land

Land with very severe limitations which restrict use to permanent pasture or rough grazing except for occasional pioneer forage crops

Urban

Built-up or 'hard' uses with relatively little potential for a return to agriculture housing industry commerce education transport religious buildings cemeteries. Also hard-surfaced sports facilities permanent caravan sites and vacant land all types of derelict land including mineral workings which are only likely to be reclaimed using derelict land grants.

Non-agricultural

'Soft' uses where most of the land could be returned relatively easily to agriculture including private parkland public open spaces sports fields allotments and soft-surfaced areas on airports/airfields. Also active mineral workings and refuse tips where restoration conditions to 'soft' after-uses may apply

Woodland

Includes commercial and non-commercial woodland

Agricultural Buildings

Includes the normal range of agricultural buildings as well as other relatively permanent structures such as glasshouses. Temporary structures (eg. polythene tunnels erected for lambing) may be ignored.

Open Water

Includes lakes ponds and rivers as map scale permits

Land Not Surveyed

Agricultural land which has not been surveyed

Where the land use includes more than one of the above eg buildings in large grounds and where map scale permits the cover types may be shown separately Otherwise the most extensive cover type will be shown

APPENDIX II

DEFINITION OF SOIL WETNESS CLASSES

Wetness Class I

The soil profile is not wet within 70cm depth for more than 30 days in most years

Wetness Class II

The soil profile is wet within 70cm depth for 31-90 days in most years or if there is no slowly permeable layer within 80cm depth it is wet within 70cm for more than 90 days but not wet within 40cm depth for more than 30 days in most years

Wetness Class III

The soil profile is wet within 70cm depth for 91-180 days in most years or if there is no slowly permeable layer within 80cm depth it is wet within 70cm for more than 180 days but only wet within 40cm depth for 31-90 days in most years

Wetness Class IV

The soil profile is wet within 70cm depth for more than 180 days but not wet within 40cm depth for niore than 210 days in most years or if there is no slowly permeable layer within 80cm depth it is wet within 40cm depth for 91-210 days in most years

Wetness Class V

The soil profile is wet within 40cm depth for 211-335 days in most years

Wetness Class VI

The soil profile is wet within 40cm depth for more than 335 days in most years

(The number of days is not necessarily a continuous period 'In most years is defined as more than 10 out of 20 years)

APPENDIX III

SOIL PIT AND SOIL BORING DESCRIPTIONS

Contents * Soil Abbreviations Explanatory Note

* Soil Pit Descriptions

* Database Printout Boring Level Information

* Database Printout Horizon Level Information

SOIL PROFILE DESCRIPTIONS EXPLANATORY NOTE

Soil pit and auger boring information collected during ALC fieldwork is held on a database. This has commonly used notations and abbreviations as set out below

Boring Header Information

- 1 GRID REF national grid square and 8 figure grid reference
- 2 USE Land use at the time of survey. The following abbreviations are used
- ARA Arable WHT Wheat BAR Barley CER Cereals OAT Oats MZE Maize OSR Oilseed rape
 BEN Field Beans BRA Brassicae POT Potatoes SBT Sugar Beet FCD Fodder Crops LIN Linseed
 FRT Soft and Top Fruit HRT Horticultural Crops PGR Permanent Pasture LEY Ley Grass RGR Rough Grazing
 SCR Scrub CFW Coniferous Woodland DCW Deciduous Woodland HTH Heathland BOG Bog or Marsh
 FLW Fallow PLO Ploughed SAS Set aside OTH Other
- 3 GRDNT Gradient as measured by a hand-held optical clinometer
- 4 GLEY/SPL Depth in crn to gleying or slowly permeable layers
- 5 AP (WHEAT/POTS) Crop-adjusted available water capacity
- 6 MB (WHEAT/POTS) Moisture Balance
- 7 DRT Best grade according to soil droughtmess
- 8 If any of the following factors are considered significant an entry of Y will be entered in the relevant column
- MREL Microreleef limitation FLOOD Flood risk EROSN Soil erosion risk EXP Exposure limitation FROST Frost DIST Disturbed land CHEM Chemical limitation
- 9 LIMIT The main limitation to land quality. The following abbreviations are used
- OC Overall Climate AE Aspect EX Exposure FR Frost Risk GR Gradient MR Microrelief
 FL Flood Risk TX Topsoil Texture DP Soil Depth CH Chemical WE Wetness WK Workability
 DR Drought ER Soil Erosion Risk WD Combined Soil Wetness/Droughtiness ST Topsoil Stoniness

Soil Pits and Auger Borings

- 1 TEXTURE soil texture classes are denoted by the following abbreviations
- S Sand LS Loamy Sand SL Sandy Loam SZL Sandy Silt Loam CL Clay Loam ZCL Silty Clay Loam
 SCL Sandy Clay Loam C Clay SC Sandy Clay ZC Silty Clay OL Organic Loam P Peat SP Sandy Peat
 LP Loamy Peat PL Peaty Loam PS Peaty Sand MZ Marine Light Silts

For the sand loamy sand sandy loam and sandy salt loam classes the predominant size of sand fraction will be indicated by the use of prefixes

- F Fine (more than 66% of the sand less than 0 2mm)
- M Medium (less than 66% fine sand and less than 33% coarse sand)
- C Coarse (more than 33% of the sand larger than 0 6mm)

The clay loam and sulty clay loam classes will be sub-divided according to the clay content

M Medium (<27% clay) H Heavy (27 35% clay)

- 2 MOTTLE COL Mottle colour
- 3 MOTTLE ABUN Mottle abundance expressed as a percentage of the matrix or surface described
- F few <2% C common 2 20% M many 20-40 VM very many 40%+
- 4 MOTTLE CONT Mottle contrast
- F faint indistinct mottles evident only on close inspection. D distinct mottles are readily seen
- P prominent mottling is conspicuous and one of the outstanding features of the horizon
- 5 PED COL Ped face colour
- 6 STONE LITH One of the following is used

HR all hard rocks and stones MSST soft medium or coarse grained sandstone
SI soft weathered igneous or metamorphic SLST soft colluctor dolimitic limestone
FSST soft fine grained sandstone ZR soft argillaceous or silty rocks CH chalk
GH gravel with non porous (hard) stones GS gravel with porous (soft) stones

Stone contents (>2cm >6cm and total) are given in percentages (by volume)

7 STRUCT the degree of development size and shape of soil peds are described using the following notation

degree of development WK weakly developed MD moderately developed ST strongly developed

ped size F fine M medium C coarse VC very coarse

ped shape S single grain M massive GR granular AB angular blocky SAB sub-angular blocky PR prismatic PL platy

- 8 CONSIST Soil consistence is described using the following notation
- L loose VF very friable FR friable FM firm VM very firm EM extremely firm EH extremely hard
- 9 SUBS STR Subsoil structural condition recorded for the purpose of calculating profile droughtiness
- G good M moderate P poor
- 10 POR Soil porosity If a soil horizon has less than 0.5% biopores > 0.5 mm a Y will appear in this column
- 11 IMP If the profile is impenetrable a Y will appear in this column at the appropriate horizon
- 12 SPL Slowly permeable layer If the soil horizon is slowly permeable a Y will appear in this column
- 13 CALC If the soil horizon is calcareous a Y will appear in this column
- 14 Other notations

APW available water capacity (in mm) adjusted for wheat
APP available water capacity (in mm) adjusted for potatoes
MBW moisture balance wheat
MBP moisture balance potatoes

SOIL PIT DESCRIPTION

Site Name N BADDESLEY TVLP S 355 Pit Number 1P

Grid Reference SU39502030 Average Annual Rainfall 820 mm

Accumulated Temperature
Field Capacity Level

Field Capacity Level 174 days
Land Use Permanent Grass

1503 degree days

Slope and Aspect degrees

HORIZON COLOUR STONES >2 TOT STONE MOTTLES STRUCTURE TEXTURE 0- 25 MCL. 10YR31 00 0 2 С 25- 38 MCL 10YR41 00 0 2 С **MDCSAB** 38- 49 05GY61 00 MDCSAB С 0 10 М 05G 61 00 49- 67 0 10 М

Wetness Grade 3A Wetness Class III

Gleying 0 cm SPL 049 cm

Drought Grade APW mm MBW 0 mm

APP mm MBP 0 mm.

FINAL ALC GRADE 3A
MAIN LIMITATION Wetness

program ALC012

LIST OF BORINGS HEADERS 07/16/93 N BADDESLEY TVLP S 355

page 1

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