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Arun District Local Plan Site 7 : Land South of Rustington By-Pass Agricultural Land Classification ALC Map and Report April 1994

AGRICULTURAL LAND CLASSIFICATION REPORT

ARUN DISTRICT LOCAL PLAN SITE 7 : LAND SOUTH OF RUSTINGTON BY-PASS

1. Summary

- 1.1 ADAS was commissioned by MAFF's Land Use Planning Unit to provide information on land quality for a number of sites in the Arun District of West Sussex. The work forms part of MAFF's statutory input to the preparation of the Arun District Local Plan.
- 1.2 Site 7 comprises 11.6 hectares of land lying south of the A259 Rustington By-Pass and north of the railway at Rustington, West Sussex. The eastern half of the site had previously been surveyed in November 1988. More recent survey work, undertaken in March 1994, completes the detailed grading for the remainder of the site. A total of 13 borings and two soil inspection pits have been made. These were described in accordance with 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 a long term limitation on its use for agriculture.
- 1.3 At the time of the recent survey the eastern part of the site was in set-aside, whilst much of the remainder was in grass.
- 1.4 The distribution of grades and subgrades is shown on the attached ALC map and the areas and extent are given in the table below. The map has been drawn at a scale of 1:5,000. It is accurate at this scale, but any enlargement would be misleading.

Table 1 : Distribution of Grades and Subgrades

Grade	Area (ha)	% of Agricultural Land
1	4.4	42.3
2	2.3	22.1
3a	0.6	5.8
3b	3.1	29.8 (10.4 ha)
Urban	0.9	
Non-Agricultural	0.1	
Not Surveyed	0.2	
Total	<u>11.6</u>	

1.5 Appendix I gives a general description of the grades, subgrades and land use categories identified in the survey. The main classes are described in terms of the

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type of limitation that can occur, the typical cropping range and the expected level and consistency of yield.

1.6 The area surveyed has been classified as Grades 1 and 2 with smaller areas of Grades 3a and 3b. The higher quality Grade 1 and 2 land is associated with deep well drained silt loam and silty clay loam soils developed in brickearth deposits. Land assigned to Grade 1 has no or very minor limitations to agricultural use, whilst land mapped as Grade 2 has a slight droughtiness restriction. The lower quality 3b land is associated with poorly drained alluvial soils whilst the Grade 3a is intermediate between these and the brickearth deposits having a moderate wetness limitation.

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.
- 2.2 The main parameters used in the assessment of an overall climatic limitation are average annual rainfall, as a measure of overall wetness, and accumulated temperature, as a measure of the relative warmth of a locality. The combination of rainfall and temperature at this site mean that there is no limitation in terms of agricultural land quality. However climatic factors do interact with soil properties to influence soil wetness and droughtiness limitations.

Table 2 :Climatic Interpolation

Grid Reference	TQ049036	TQ056032
Altitude (m, AOD)	5	5
Accumulated Temperature	1541	1541
(°days, Jan-June)		
Average Annual Rainfall (mm)	747	744
Field Capacity Days	154	154
Moisture deficit, wheat (mm)	121	121
Moisture deficit, potatoes (mm)) 118	119
Overall Climatic Grade	1	1

3. Relief

- 3.1
 - 1 The site occupies a small valley feature running northeast towards lower lying land beyond. The higher land lies at approximately 5m AOD, falling to around 2m AOD in the valley bottom where the ditch passes under the A259 Rustington By-Pass. Nowhere on the site does gradient or microrelief affect land quality.

4. Geology and Soils

- 4.1 The published geology map for the site area, (BGS Sheet 317,1972) shows the site to be underlain by brickearth deposits on the higher ground, with alluvium mapped on the lower ground associated with the lower slopes of the valley feature.
- 4.2 The published soils information for the area (SSEW 1967, Sheet TQ00/TQ10, 1:25,000) shows the site to comprise number of soil types. The Arundel Complex, ground water gley soils associated with esturine alluvium, is mapped on lower land with soils derived from loamy drift (Calcetto and Lyminster series) predominating elsewhere. The Hamble Series, which is derived from silty brickearth deposits, is mapped on the higher ground to the east and west of the site.

5. Agricultural Land Classification

- 5.1 The ALC classification of the site is shown on the attached ALC map.
- 5.2 The location of the soil observation points is shown on the attached sample point map.

Grade 1

5.3 Excellent quality (grade 1) land occurs towards the eastern half of this site. It comprises deep well drained (wetness class 1) soils derived from brickearth deposits. The soils typically comprise very slightly stony, non-calcareous silt loam topsoils resting over similar or slightly heavier medium silty clay loam upper subsoils. These rest over medium or heavy silty clay loam lower horizons to depths in excess of 120cm. Such land has no significant limitations to agricultural use and is suitable for a very wide range of agricultural and horticultural cropping.

Grade 2

5.4 Very good quality grade 2 land is mapped towards the western end of the site. The deep well drained soils are similar to those described for grade 1 areas but textures tend to be slightly finer giving rise to medium silty clay topsoils and upper subsoils resting over heavy clay loam and clay lower horizons. In a coastal areas such as this which has comparatively high moisture deficits, land of this type is graded 2 on the basis of a minor droughtiness limitation. This will act to slightly reduce crop yields, but nevertheless a wide range of agricultural and horticultural crops can be grown.

Subgrade 3a

5.5 Land mapped as subgrade 3a occurs in a small block towards the centre of the site. This is part of a larger area of grade 3a land mapped as part of the more extensive 1988 survey which covers the eastern part of this site as well as substantial areas to the north of the by-pass. The 1988 survey report (ADAS Ref.4202/50/88) indicates these soils to be fine sandy silt loams overlying slowly permeable fine sandy clay subsoils. Such soils are allocated to wetness class IV but as a result of their workable topsoils are appropriately graded 3a, the key limitation being one of soil wetness.

Subgrade 3b

5.6 Moderate quality (subgrade 3b) land is mapped on lower land adjoining the ditch running northeastwards out of the site. Soils typically comprise medium silty clay loam or silt loam topsoils overlying heavily gleyed and slowly permeable clays or silty clays. These poorly drained (wetness class IV) soils have significant wetness and workability limitations restricting the flexibility for cropping and stocking.

ADAS Reference : 4202/057/94 MAFF Reference : EL 42/460 Resource Planning Team Guildford Statutory Group ADAS Reading

REFERENCES

British Geological Survey (1972), Sheet Number 317, Chichester, 1:63360.

MAFF (1988), Agricultural Land Classification of England and Wales : Revised Guidelines and Criteria for Grading the Quality of Agricultural Land.

Meteorological Office (1989), Climatological Data for Agricultural Land Classification.

Soil Survey of England and Wales (1967), Sheet Number TQ00/TQ10, Soils of The West Sussex Coastal Plain, 1:25,000.

APPENDIX I

DESCRIPTION OF THE GRADES AND SUBGRADES

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 of this 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 land.

Grade 3 : Good to Moderate Quality Land

Land with moderate limitations which affect the choice of crops, the 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.

Subgrade 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 (e.g. 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 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 including: 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. Also active mineral workings and refuse tips where restoration conditions to 'soft' after-uses may apply.

Woodland

Includes commercial and non-commercial woodland. A distinction may be made as necessary between farm and non-farm woodland.

Agricultural Buildings

Includes the normal range of agricultural buildings as well as other relatively permanent structures such as glasshouses. Temporary structures (e.g. 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, e.g. 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 CLASS

Wetness Class I

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

Wetness Class II

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

Wetness Class III

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

Wetness Class IV

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

Wetness Class V

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

Wetness Class VI

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

APPENDIX III

SOIL PIT AND SOIL BORING DESCRIPTIONS

Contents:

Sample Point Map

Soil Abbreviations - explanatory note

Database Printout - soil pit information

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	FLW : Fallow
PGR : Permanent Pastu	re LEY : Ley Grass	RGR : Rough Grazing
SCR : Scrub	CFW : Coniferous Woodland	DCW : Deciduous Wood
HTH : Heathland	BOG : Bog or Marsh	FLW : Fallow
PLO : Ploughed	SAS : Set aside	OTH : Other
HRT : Horticultural Cr	ops	

- 3. **GRDNT** : Gradient as measured by a hand-held optical clinometer.
- 4. GLEY/SPL : Depth in cm 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 droughtiness.
- 8. If any of the following factors are considered significant, an entry of 'Y' will be entered in the relevant column.

MREL : Microrelief limitationFLOOD : Flood riskEROSN : Soil erosion riskEXP : Exposure limitationFROST : FrostDIST : Disturbed landCHEM : Chemical limitationFROST : FrostDIST : Disturbed land

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 ST : Topsoil Stones
CH: Chemical	WE : Wetness	WK : Workability
DR : Drought	ER: Erosion Risk	WD: Soil Wetness/Droughtiness

Soil Pits and Auger Borings

1. **TEXTURE** : soil texture classes are denoted by the following abbreviations.

S : SandLS : Loamy SandSL : Sandy LoamSZL : Sandy Silt LoamCL : Clay LoamCL : Clay LoamZCL : Silty Clay LoamSCL : Sandy Clay LoamCC : Silty ClayC : ClaySC : Sandy ClayZC : Silty ClayOL : Organic LoamP : PeatSP : Sandy PeatLP : Loamy PeatPL : Peaty LoamPS : Peaty SandMZ : Marine Light SiltsSPSandy Clay

For the sand, loamy sand, sandy loam and sandy silt 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 silty 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

 ${\bf P}$: 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 stonesSLST : soft oolitic or dolimitic limestoneCH : chalkFSST : soft, fine grained sandstoneZR : soft, argillaceous, or silty rocksGH : gravel with non-porous (hard) stonesMSST : soft, medium grained sandstoneGH : gravel with non-porous (hard) stonesSI : soft weathered igneous/metamorphic rockStone 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 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

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Site Name	e : SITE7 /	ARUN LP RUST	INGTON	Pit Number	: 1P	
Grid Refe	erence: TQ	A F L	verage Annu ccumulated field Capaci and Use flope and As	Temperature ty Level	: 1541 da : 154 da	legree days ays nent Grass
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50-75	HCL	10YR56 00	ů 0	0		MDCSAB
75-120	С	10YR56 00	0	0		MDCSAB
Wetness (Grade : 1	Ģ	letness Clas Sleying SPL	s : I :000 : No		
Drought (Grade : 2.		PW : 152mm PP : 123mm		1 mm 4 mm	

FINAL ALC GRADE : 2 MAIN LIMITATION : Droughtiness

SOIL PIT DESCRIPTION

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CT 111 A17		N0											

FINAL ALC GRADE : 3B MAIN LIMITATION : Wetness program: ALCO12

LIST OF BORINGS HEADERS 21/04/94 SITE7 ARUN LP RUSTINGTON

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