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Maidstone Borough Local Plan
Site 59 Land at Millbank, Headcorn
Agricultural Land Classification
ALC Map and Report
October 1994

# AGRICULTURAL LAND CLASSIFICATION, REPORT

# MAIDSTONE BOROUGH LOCAL PLAN SITE 59 LAND AT MILLBANK, HEADCORN

### 1 Summary

- ADAS was commissioned by MAFF's Land Use Planning Unit to provide information on land quality for a number of sites in the Maidstone Borough of Kent. The work forms part of MAFF's statutory input to the Maidstone Borough Local Plan.
- Site 59 comprises 24.2 hectares of land to the north west of Headcorn in Kent An Agricultural Land Classification (ALC) survey was carried out in October 1994. The survey was undertaken at a detailed level with an observation density of approximately one boring / soil pit per hectare. A total of 23 borings and two soil inspection pits were assessed 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 long term limitations on its use for agriculture.
- 1 3 The work was carried out by members of the Resource Planning Team in the Guildford Statutory Group of ADAS
- At the time of survey the majority of the site was under permanent grass used for grazing cattle and sheep with an area to the north grazed by geese. Towards the south west of the site one field contained stubble from the 1994 harvest. The areas of non agricultural land shown include a track and a pond filled with tyres the areas of open water being ponds for stock use.
- The distribution of grades and subgrades is shown on the attached ALC map and the areas are given in the table below. The map has been drawn at a scale of 1 10 000. It is accurate at this scale but any enlargement would be misleading. This map supersedes any previous ALC survey information for this site.

Table 1 Distribution of Grades and Subgrades

Grade	Area (ha)	% of Site	% of Agricultural Land
3b	23 8	98 4	100% (23 8ha)
Non- Agrıcultural	0 2	0 8	
Open Water	0 2	0 8	
Total area of Site	<u>24 2</u>	<u>100%</u>	

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

The site has been classified as Subgrade 3b moderate quality land Poorly drained clayey soils derived from Weald Clay cause the land to experience significant soil wetness and workability restrictions. Occasional observations were impenetrable due to stones but this restriction was not significant overall.

### 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 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
- 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 are believed to affect the site. However climatic and soil factors interact to influence soil wetness and droughtiness limitations.

**Table 2 Climatic Interpolation** 

Grid Reference	TQ827450	TQ828446
Altitude (m AOD)	23	30
Accumulated Temperature	1484	1476
(°days Jan -June)		
Average Annual Rainfall (mm)	633	645
Field Capacity Days	131	133
Moisture deficit wheat (mm)	124	123
Moisture deficit potatoes (mm)	122	120
Overall Climatic Grade	1	1

### 3 Relief

The site lies between approximately 23 and 34m AOD. It rises very slightly in a southerly direction falling slightly again in the extreme south of the site. Nowhere on the site does relief or gradient affect land quality.

### 4 Geology and Soils

4 1 The published geological information (BGS 1976) shows the site to be underlain by Cretaceous Weald Clay some of which is shown as being interbedded with Paludina Limestone

The published soils information (SSEW 1980 1983 and 1984) shows the site to be underlain by soils from the Wickham 1 Association. These are described as slowly permeable seasonally waterlogged fine silty over clayey fine loamy over clayey and clayey soils. (SSEW 1983) Typically over the site fine loamy over slowly permeable clayey soils were encountered.

# 5 Agricultural Land Classification

- Paragraph 1 5 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 are shown on the attached sample point map

## Subgrade 3b

53 Land of moderate quality (Subgrade 3b) is mapped for all of the agricultural land The principal limitation is soil wetness due to impeded drainage Typically profiles comprise a stoneless or very slightly stony (c 1% v/v limestone fragments and / or flints) non calcareous heavy clay loam or clay topsoil commonly passes to a gleved heavy clay loam or clay upper subsoil which overlies moderately and poorly structured slowly permeable clay horizons. Pits 1p and 2p (see Appendix III) are typical of these soils. Given the comparatively dry local climatic regime soils of this nature are placed in Wetness Class III or IV (see Appendix II) However due to heavy topsoil textures and associated workability limitations a grading of 3b is appropriate. These wetness and workability factors lead to severe restrictions on the versatility of the land principally in terms of the timing of cultivations and stocking if structural damage to the soil is to be avoided Occasional observations became impenetrable to the soil auger due to limestone fragments in the matrix between 40 and 95cm but in most cases the slowly permeable clay horizons above were sufficient to apply Subgrade 3b on the basis of soil wetness alone Similarly occasional observations were of a slightly better quality but were of insufficient distribution to justify separate mapping

ADAS Ref 2007/155/94 MAFF Ref EL20/328 Resource Planning Team Guildford Statutory Group ADAS Reading

## SOURCES OF REFERENCE

British Geological Survey (1976) Sheet 288 Maidstone 1 50 000 Solid & 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 Bulletin No 15 Map scale 1 250 000

Soil Survey of England and Wales (1983) Sheet No 6 Soils of South-East England 1 250 000 and Accompanying Legend

Soil Survey of England and Wales (1984) Soils and their use in South-East England Bulletin No 15

### 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 limitation	FLOOD	Flood risk	EROS	N Soil erosion risk
EXP Exposure limitation	<b>FROST</b>	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	DР	Soil Depth ST	Topsoil Stones
CH	Chemical	$\mathbf{W}\mathbf{E}$	Wetness	WK	Workability	_
DR	Drought	ER	Erosion Risk	$\mathbf{W}\mathbf{D}$	Soil Wetness/I	Oroughtiness

#### n of the performance of

# 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 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
  - 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 SLST soft oolitic or dolimitic limestone

CH chalk FSST soft fine grained sandstone

ZR soft argillaceous or silty rocks GH gravel with non porous (hard) stones MSST soft medium grained sandstone GH gravel with non porous (hard) stones

SI soft weathered igneous/metamorphic rock

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
ped shape
S single grain
M medium
C coarse
VC very coarse
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 MAIDSTONE LP SITE 59

Grid Reference TQ82724412

Pit Number 1P

Average Annual Rainfall 645 mm

Accumulated Temperature

1476 degree days

Field Capacity Level

133 days

Land Use

Permanent Grass

Slope and Aspect

degrees

HORIZON	TEXTURE	COLOUR	STONES >2	TOT STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0- 25	HCL	10YR43 00	0	0						
25- 43	С	10YR53 00	0	0		С	MDCSAB	FR	M	
43- 65	С	10YR53 63	0	0		М	WKCSAB	FR	М	

Wetness Grade 3В Wetness Class III

Gleying SPL

25 cm 43 cm

Drought Grade

MBW 0 mm

APW APP

MBP

mm

0 mm

FINAL ALC GRADE 3B MAIN LIMITATION Wetness

SOIL PIT DESCRIPTION

Site Name MAIDSTONE LP SITE 59 Pit Nu

Pit Number 2P

Grid Reference TQ82704090

Average Annual Rainfall 645 mm

Accumulated Temperature 1476 degree days

Field Capacity Level

133 days

Land Use

Slope and Aspect

02 degrees N

HORIZON	TEXTURE	COLOUR	STONES >2	TOT STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0- 20	С	10YR53 00	0	0						
20- 33	С	10YR52 00	0	0		С	WKCSAB	FM	Р	
33 70	С	25Y 63 00	0	0		С	MDVCAB	VM	Р	

Wetness Grade 3B Wetness Class IV

Gleying 20 cm SPL 20 cm

Drought Grade APW mm MBW 0 mm

APP mm MBP 0 mm

FINAL ALC GRADE 3B MAIN LIMITATION Wetness

SAM	PLE	A	SPECT				WET	NESS	-WHE	EAT-	-P0	TS-	M	REL	EROSN	FROST	CI	HEM	ALC	
NO	GRID REF	USE		GRDNT	GLEY	SPL	CLASS	GRADE	AP	MB	AP	MB	DRT	FL000	Ε	XP DI	ST	LIMIT		COMMENTS
	T000504400	. 000			25	05		20		^		^							20	SDI OF
1 .					25	25	4	3B		0		0						ME	3B	SPL 25
	P TQ82724412				25	43	3	3B		0		0						WE	3B	PIT 65 NR BOR6
	TQ82604420				29	29	4	3B		0		0						WE	3B	SPL 29
	P TQ82704090		N	02	20	20	4	3B		0		0						WE	3B	PIT 70 @ BOR14
3	TQ82804420	PGR			30	30	4	3B		0		0						ME	3B	SPL 30
4	T082504410	PGR			39	39	3	3B		0		0						WE	3B	IMPST 95 SPL39
5					43	43	3	3B		0		0						WE	3B	SPL 43
6	•				33	33	4	3B		0		0						WE		IMPST 85 SPL33
7					28	70	2	3A		0		0						WE		SPL 70
_ 8			N	01	0	28	4	3B		0		0						WE		SPL 28
			.,		-		·			•		•								<b> 20</b>
9	TQ82604400	\$TB	N	01	0	25	4	3B		0		0						WE	3B	SPL 25
_ 10	TQ82704400	\$TB	N	01	25	35	4	3B		0		0						WE	38	SPL 35
11	TQ82804400	PGR	N	01	30	30	4	3B		0		0						₩E	3В	IMPST 75 SPL30
12	TQ82504390	PGR	N	01	28	28	4	3B		0		0						WE	3B	SPL 28
13	TQ82604390	\$TB	N	01	25	25	4	3B		0		0						WE	3B	SPL 25
•																				
14	TQ82704390	\$TB	N	02	26	40	3	3B		0		0						WE	38	SPL 40
15	TQ82804390	PGR	N	02	0	40	3	3B		0		0						WE	3B	SPL 40
_ 16	TQ82904390	PGR	N	02	27	27	4	3B		0		0						WE	3В	SPL 27
17	TQ82604380	STB	N	01	0	23	4	3B		0		0						WE	3B	SPL 23
18	TQ82704380	PGR	N	01	21	40	3	3B		0		0						WE	38	SPL 40
19	TQ82804380	PGR	N	01	25	36	4	3B		0		0						WE	3B	SPL 36
20	TQ82904380	PGR	N	01	25	25	4	3B		0		0						WE	38	SPL 25
21	TQ82904370	PGR			25	25	4	3B		0		0						WE	3B	IMPST 45 SPL25
22	TQ82804360	PGR	S	01	26	26	4	3B		0		0						WE	3B	SPL 26
23	TQ82904360	PGR	S	01	22	22	4	3B		0		0						WE	3B	IMPST 40 SPL22

0-25

25-50

50 65 c

C

С

25Y 43 00 10YR56 00 C

10YR53 00 10YR58 00 M

25Y 53 00 10YR56 62 M

----STONES---- STRUCT/ SUBS -- -MOTTLES ---- PED COL ABUN CONT COL GLEY >2 >6 LITH TOT CONSIST STR POR IMP SPL CALC MPLE DEPTH **TEXTURE** COLOUR 0 0 0 0-25 10YR43 00 hc1 25-38 С 10YR53 00 10YR58 00 M 00MN00 00 Y 0 0 0 γ 38-70 10YR63 00 10YR58 00 M V 00 00M00 0 0 γ С 70-85 10YR72 00 10YR56 00 M 0 0 O 0-25 10YR43 00 0 0 hcl 10YR53 00 10YR56 00 C 00MN00 00 Y 0 MDCSAB FR M 25 - 430 0 C 43-65 10YR53 63 10YR58 00 M 00MN00 00 Y 0 0 0 WKCSAB FR M 0 0 HR 0-29 10YR43 00 hc1 29 45 10YR53 00 10YR56 00 C 00MN00 00 Y 0 0 0 С 45-78 c 10YR53 00 10YR58 00 M OOMNOO OO Y 0 0 0 М 78 120 hzc1 10YR72 00 10YR56 58 M 0 0 Λ ٧. P 0-20 10YR53 00 0 0 0 C 00MN00 00 Y 10YR52 00 10YR66 71 C 0 0 0 WKCSAB FM P PLASTIC 20-33 С 33-70 25Y 63 00 25Y 68 71 C 00MN00 00 Y 0 0 0 MDVCAB VM P PLASTIC 0-30 10YR43 00 0 0 n hcl 30-55 10YR53 51 10YR58 00 M 00MN00 00 Y 0 0 0 55 80 25Y 53 00 10YR58 00 M 00MN00 00 Y 0-30 hc1 10YR43 00 0 0 0 0 30-39 С 10YR54 00 00MN00 00 Y 0 0 39-78 10YR53 00 10YR58 00 M 0 С М 00MN00 00 Y 78 95 10YR53 54 10YR58 00 M 0 0 HR 15 М **IMP STONES 95** 0-29 25Y 54 00 0 0 HR hc1 1 29-43 25Y 56 54 0 0 HR С 1 М 43-70 25Y 53 00 10YR58 00 M 00MN00 00 Y 0 0 0-33 0 0 HR 10YR43 00 1 bel 33-60 С 10YR53 52 10YR56 00 M 00MN00 00 Y 0 0 HR 2 60-85 hc1 25Y 53 00 10YR66 00 C 00MN00 00 Y 0 0 HR **IMP STONES 85** 0-28 0 0 hcl 10YR43 00 Ω 28-55 hel 10YR53 54 10YR56 00 C 00MN00 00 Y 0 0 55-75 10YR53 54 10YR56 00 C 00MN00 00 Y 0 0 HR 10 hcl М 75-100 c 25Y 53 00 10YR68 00 M 00MN00 00 Y 0 0 HR 15 М Y 100-120 mc1 25Y 53 00 10YR68 00 M 0 0 HR 0-28 hcl 10YR53 00 10YR58 00 M Υ 0 0 ٥ 28-60 10YR63 00 10YR58 00 M 00MN00 00 Y 0 0 С 0 М 60-70 10YR63 00 10YR58 00 M 00MN00 00 Y 0 0 HR 10 М C 70-85 10YR72 00 10YR56 00 M 0 ٥ ٥ c

Υ

00MN00 00 Y

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----MOTTLES----- PED ----STONES --- STRUCT/ SUBS

SAMPLE DEPTH TEXTURE COLOUR COL ABUN CONT COL GLEY >2 >6 LITH TOT CONSIST STR POR IMP SPL CALC

SAMPLE	DEPTH	TEXTURE	COLOUR (	COL ABUN	CONT COL	GLEY	>2	>6 LITH	тот со	NSIST STR POR	IMP SPL CALC	
10	0-25	hcl	10YR42 00				0	0	0			
	25-35	С	10YR52 00 10	OYR56 00 C	00MN00	00 Y	0	0	0	M		
•	35-60	С	10YR62 00 10	OYR58 00 M	00MN00	00 Y	0	0	0	M	Y	
	60-75	С	25Y 52 00 10	OYR58 00 M		Y	0	0 HR	10	M	Y	
	75-120	c	05GY61 00 75	5YR46 00 M		Y	0	0	0	P	Υ	
11	0-30	c	10YR42 43				0	0	0			
n	30-75	c	25Y 53 52 10	OYR66 00 C	OOMNOO	00 Y		0	0	М	Υ	
		c	25Y 53 52 10			Y		0 HR	30	M	Y	IMP STONES 76
12	0 28	hcl	25Y 53 00				0	0	0			
'-	28-58	c	10YR63 00 10	NV856 NN M		Υ	٥	0	0	м	Υ	
	58 85	c	101R63 00 10		00MN00		•	0	0	M	Ϋ́	
_	36 63	C	101R65 00 75	31830 01 11	OOFIROO	00 1	Ü	v	v	rı	'	
13	0-25	С	25Y 43 00				0	0	0			
•	25 60	С	25Y 53 00 10	OYR58 62 M		Y	0	O HR	1	М	Υ	
14	0 26	С	10YR53 00				0	0	0			
	26 40	С	10YR53 00 10	0YR58 00 C	00MN00	00 Y	0	0	0	М		
•		С	25Y 62 71 25			Y	0	O HR	5	Р	Y	
15	0 30	С	25Y 42 00 10	0V856 00 C	OOMNOO	00 V	n	0	0			
13	30-40		10YR53 00 10		00MN00			0	0	м		
	40 70	c c	25Y 51 52 10		00MN00			0	0	M M	Y	
16		С	10YR53 00				0	0	0			
	27-43	С	10YR53 00 10		00MN00	00 Y	0	0	0	М	Y	
	43-70	С	25Y 63 00 10	OYR68 71 C		Y	0	0	0	Р	Y	
17	0-23	С	25Y 42 00 10	OYR56 00 C		Y	0	0	0			
_	23-43	С	10YR53 63 10	OYR56 00 C		Υ	0	0	0	М	Y	
	43-60	c	10YR71 00 7	5YR68 00 M		Y	0	0	0	P	Y	
18	0-21	С	10YR42 00				0	0	0			
1	21-40	С	10YR53 00 10	OYR68 00 C	00MN00	00 Y	0	0	0	М		
	40-50	С	25Y 62 00 2		00MN00	00 Y	0	0	0	P	Υ	
-	50-60	c	25Y 62 00 2	5Y 66 71 C	00MN00	00 Y	0	0 SLST	10	P	Υ	
19	0-25	С	10YR52 00				0	0	0			
,	25-36	c	10YR53 00 10	0YR68 00 C	00MN00	00 Y	0	0	0	м		
		c	25Y 62 00 2		00MN00		0	0	0	Р	Υ	
20	0.25	•	100052 00				0	0	0			
20	0-25 25 55	c c	10YR52 00 10YR53 00 10	OYR68 00 C	00MN00	00 Y		O HR	5	М	Υ	
t		-	.5.,,65 00 10	-	2 24 11 10 0	•	•		-	.,	•	
21	0 25	С	10YR42 00 10			Υ	0	0	0			
	25 40	С	25Y 63 00 25			Υ	0	0	0	Р	Y	
1	40 45	С	25Y 63 00 25	5Y 66 71 C		Y	0	0 SLS1	10	Р	Y	IMP STONES 45

program ALCO11

## COMPLETE LIST OF PROFILES 04/11/94 MAIDSTONE LP SITE 59

page 3

						MOTTLES		PED			-STONES		STRUCT/	SUBS		
SA	MPLE	DEPTH	TEXTURE	COLOUR	COL	ABUN	CONT	COL	GLEY	>2	>6 LITH	тот	CONSIST	STR POR	IMP SPL CA	LC
	22	0-26 26-70		10YR43 00 25Y 62 00	25Y 6	6 71 C	(	OOMNOO	00 Y	0	0	0		Р	Y	
	23	0-22 22-40	hc1 c	10YR43 00 25Y 62 00	25Y 6	6 71 C	(	OOMNOO	00 Y	0	0	0		P	Y	IMP STONES 40