# 0301-017-96

A1 Aylesbury Vale District Local Plan Site A, Haddenham

Agricultural Land Classification ALC Map and Report February 1996 (Revised December 1997)

Resource Planning Team Guildford Statutory Group ADAS Reading ADAS Reference: 0301/017/96 MAFF Reference: EL 03/01385 LUPU Commission: 02394

#### AGRICULTURAL LAND CLASSIFICATION REPORT

## AYLESBURY VALE DISTRICT LOCAL PLAN SITE A, HADDENHAM

#### Introduction

1. This report presents the findings of a detailed Agricultural Land Classification (ALC) survey of approximately 75 hectares of land on the northern edge of Haddenham. The site is bounded by the A419 to the north and the railway to the west. The original survey was carried out in February 1996. The site was re-visited in October 1997 in order to collect additional information.

2. The survey was commissioned by the Ministry of Agriculture, Fisheries and Food (MAFF) from its Land Use Planning Unit in Reading in connection with the Aylesbury Vale District Local Plan. The results of the original survey carried out in 1996 have been re-assessed in the light of the additional information obtained in October 1997. Account has also been taken of findings at an adjacent site to the east.

3. The work was co-ordinated by the Resource Planning Team in the Guildford Statutory Group of ADAS and carried out by members of the Taunton Statutory Group. The land has been graded in accordance with the published MAFF ALC guidelines and criteria (MAFF, 1988). A description of the ALC grades and subgrades is given in Appendix I.

4. At the time of survey the area was in a mix of permanent grassland, oilseed rape and cereal stubble. The grass is used as an informal air strip but there was no evidence of any underlying reinforcement. The southern fringes of the site have been used for a new road and landscaping in connection with the development of the adjacent industrial site.

#### Summary

5. The findings of the survey are shown on the enclosed ALC map. The map has been drawn at a scale of 1:10,000. It is accurate at this scale but any enlargement would be misleading.

6. The area and proportions of the ALC grades and subgrades on the surveyed land are summarised in Table 1.

7. During the 1996 survey, the fieldwork was conducted at an average density of one auger boring per hectare. A total of 69 borings and 3 soil inspection pits were described. When the site was re-visited in 1997, a further 10 soil pits were described.

Grade/Other land	Area (hectares)	% agricultural area	% total site area
2	. 32.6	49.1	42.9
3a	30.5	45.9	40.1
3b	3.3	5.0	4.3
Other land	7.2	-	9.5
Land not surveyed	2.4	-	3.2
Total agricultural area	66.4	100.0	-
Total site area	76.0	-	100.0

#### Table 1: Area of grades and other land

8. A significant proportion of the site has been classified as Grade 2, very good quality agricultural land. Much of this area comprises freely draining, calcareous, heavy clay loams and clays overlying subsoils containing variable proportions of weathered limestone. This limestone slightly reduces the available water holding capacity of the soils and a minor droughtiness limitation exists. This is also the case across localised parts of the site where soils are sandier. Towards the south of the Grade 2 area, calcareous soils which show evidence of seasonal waterlogging exist. Clayey subsoils impede soil drainage slightly, thereby causing a minor soil wetness restriction. The limestone content of these soils is lower than the soils described above and no droughtiness limitation exists.

9. Land mapped as Subgrade 3a and 3b comprises soils derived from limestone deposits. Heavy clay loam and clay soils overlie brashy and weathered limestone at moderate and shallow depths. As a result the amount of moisture available in the soils is reduced, the extent being largely dependent upon soil depth over underlying limestone. The degree of soil droughtiness which arises determines the ALC grade.

## Factors Influencing ALC Grade

#### Climate

10. Climate affects the grading of land through the assessment of an overall climatic limitation and also through interactions with soil characteristics.

11. The key climatic variables used for grading this site are given in Table 2 and were obtained from the published 5km grid datasets using the standard interpolation procedures (Met. Office, 1989).

#### Table 2: Climatic and altitude data

Factor	Units	Values	
Grid reference	· N/A	SP 734 091	SP 731 088
Altitude	m, AOD	85	80
Accumulated Temperature	day°C	1410	1416
Average Annual Rainfall	mm	632	630
Field Capacity Days	days	132	132
Moisture Deficit, Wheat	mm	107	108
Moisture Deficit, Potatoes	mm	99	100

12. 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.

13. The main parameters used in the assessment of an overall climatic limitation are average annual rainfall (AAR), as a measure of overall wetness, and accumulated temperature (AT0, January to June), as a measure of the relative warmth of a locality.

14. The combination of rainfall and temperature at this site mean that there is no overall climatic limitation. Other local climatic factors such as exposure and frost risk are also believed not to affect the site. The site is climatically Grade 1.

#### Site

15. The agricultural land at this site lies at an altitude of 80-85 m AOD. The majority of the site is flat with slight undulations. Nowhere does gradient or microrelief affect the land quality.

## Geology and soils

16. The published geological information for the site (GSGB, 1863) shows it to be underlain by Portland Stone, with a band of Portland sand running south-west to north-east through the centre of the site.

17. The published soils information for the site (SSEW, 1983) shows the site to comprise soils of the Moreton Association. These soils are described as 'well drained calcareous clayey and fine loamy soils over limestone, in places shallow and brashy. There may be some deeper slowly permeable calcareous clayey soils' (SSEW, 1983). Soils of this broad type were found across the majority of the site. Some sandier soils were found in the west.

## Agricultural Land Classification

18. The details of the classification of the site are shown on the attached ALC map and the area statistics of each grade are given in Table 1.

19. The location of the auger borings and pits is shown on the attached sample location map and the details of the soils data are presented in Appendix II.

#### Grade 2

20. Land of very good quality has been mapped across much of the site. Principal limitations include soil droughtiness, soil wetness and workability.

21. Much of the area mapped as Grade 2 comprises free draining clay loams and clay soils overlying weathered limestone in the subsoil. Heavy clay loam and clay topsoils predominate towards the north of the site, passing to lighter medium or heavy clay loams in the south. The soils are calcareous throughout and are assessed as Wetness Class I, which in combination with the prevailing climate for the area and the topsoil textures imposes a slight workability limitation across parts of the site, especially towards the north. This slightly restricts the number of days when the soil is in a suitable condition for cultivation, trafficking by machinery or grazing by livestock. The soils are impenetrable to the auger at variable depths greater than about 80 cm, and soil inspection pits (see pits 1, 21 and 22, Appendix II) showed that this was caused by the occurrence of weathered limestone in most cases, or occasionally isolated fragments of limestone. Topsoils were found to contain 2-9% total limestone fragments. Upper subsoils were found to be stoneless to slightly stony (up to 14% limestone), passing to banded weathered limestone where stone contents range from 0-60%. The combination of soil texture, stone content and restricted rooting in these soils imposes a slight droughtiness limitation restricting the land to Grade 2. Within the Grade 2 mapping units there are occasional isolated areas where the stone content is considered to be higher than elsewhere and these areas are limited to Subgrade 3a by a moderate droughtiness limitation. However, these areas are not sufficiently extensive to be mapped as a separate mapping unit at the scale of mapping and they are also balanced by occasional borings of better quality.

22. In the south of the Grade 2 mapping unit the soils show some evidence of seasonal waterlogging in the form of gleying which occurs at variable depths. Soil inspection pit 3 suggests that a fluctuating watertable is responsible for the waterlogging, whilst pit 23 provides evidence of slowly permeable subsoils which are impeding drainage. Whatever the cause, waterlogging is not prolonged so soils are assigned to Wetness Class I or II. The wetness limitation may restrict the timing of cultivations and grazing, as well as affecting crop growth and development. The soft limestone content of the soils in this area is lower than described above and no droughtiness limitation exists.

23. A small area in the west of the site comprises sandier soils. Medium sandy loam profiles may contain up to 50% limestone. Soil inspection pit 2 showed that there are bands of limestone within the profile. The combination of light textures and the stone content restricts the available water in the profile and a slight droughtiness limitation exists. The soils show evidence of waterlogging at depth caused by groundwater, but are assessed as Wetness Class I because of the freely draining nature of the sandy subsoils.

#### Subgrade 3a

24. Good quality agricultural land has been mapped where soils rest on weathered limestone at moderate depth, such that a soil droughtiness limitation determines land quality. Soils are calcareous throughout and comprise medium or heavy clay loam topsoils, which overlie similar or clay subsoils. Stone contents were estimated to be in the range 10-15% limestone for topsoils, and 10-35% limestone in the subsoil. Profiles were typically impenetrable to the soil auger between depths of 50 and 80cm. A number of soil pits were dug to assess subsoil conditions (see pits 14, 16 and 19, Appendix II). Weathered limestone was found to occur at depths between 50 and 85cm. The nature of the limestone is variable within each pit and across the site, such that bands of hard, brashy material containing about 35-45% limestone, alternate with highly weathered material which although not very stony (up to 10-15% limestone), is dense and restricts rooting. These soil characteristics result in the amount of soil moisture which is available being reduced. Moisture balance calculations indicate that given the prevailing climatic conditions, such land cannot be graded higher than Soil droughtiness such as this will cause plants to suffer drought stress, Subgrade 3a. especially during drier periods and the level and consistency of crop yields may be affected.

#### Subgrade 3b

25. A small area of moderate quality land is mapped towards the centre of the site where soils are similar to those described in paragraph 24 above, but shallower over limestone. Therefore the soil droughtiness restriction is more severe and land quality lower. Heavy clay loam or clay topsoils containing up to 15% total limestone, overlie similar upper subsoils with 25-35% limestone. Profiles were found to be impenetrable to the soil auger at 40-50 cm depth. A soil pit (see 18P, Appendix II) confirmed that the reason for this is the presence of hard, brashy limestone at shallow depth. The high stone contents in the subsoil and the restricted rooting into the bedrock, results in significant restrictions on the amount of profile available water. The degree of the soil droughtiness limitation which is present is consistent with land of Subgrade 3b quality.

#### SOURCES OF REFERENCE

Geological Survey of Great Britain (1863) *Sheet 45 SE*, Old Series, Solid. GSGB: London.

Ministry of Agriculture, Fisheries and Food (1988) Agricultural Land Classification of England and Wales: Revised guidelines and criteria for grading the quality of agricultural land. MAFF: London.

Met. Office (1989) *Climatological Data for Agricultural Land Classification*. Met. Office: Bracknell.

Soil Survey of England and Wales (1983) Sheet 6, Soils of South East England, 1:250,000. SSEW: Harpenden.

Soil Survey of England and Wales (1984) Soils and their Use in South East England. SSEW: Harpenden

## APPENDIX I

## DESCRIPTIONS 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.

## **APPENDIX II**

## SOIL DATA

Contents:

Sample location map Soil abbreviations - Explanatory Note Soil Pit Descriptions Soil boring descriptions (boring and horizon levels) Database Printout - Horizon Level Information

#### SOIL PROFILE DESCRIPTIONS: EXPLANATORY NOTE

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

#### **Boring Header Information**

- 1. GRID REF: national 100 km 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 grass	LEY:	Ley grass	RGR:	Rough grazing
SCR:	Scrub	CFW:	Coniferous woodland	отн	Other
DCW:	Deciduous woodland	BOG:	Bog or marsh	SAS:	Set-Aside
HTH:	Heathland	HRT:	Horticultural crops	PLO:	Ploughed

3. GRDNT: Gradient as estimated or measured by a hand-held optical clinometer.

4. GLEY/SPL: Depth in centimetres (cm) to gleying and/or slowly permeable layers.

- 5. AP (WHEAT/POTS): Crop-adjusted available water capacity.
- 6. MB (WHEAT/POTS): Moisture Balance. (Crop adjusted AP crop adjusted MD)
- 7. DRT: Best grade according to soil droughtiness.

8. If any of the following factors are considered significant, 'Y' will be entered in the relevant column:

MREL:	Microrelief limitation	FLOOD:	Flood risk	EROSN:	Soil erosion risk
EXP:	Exposure limitation	FROST:	Frost prone	DIST:	Disturbed land
CHEM:	Chemical limitation				

9. LIMIT: The main limitation to land quality. The following abbreviations are used:

OC:	Overall Climate	AE:	Aspect	ST:	Topsoil Stoniness
FR:	Frast Risk	GR:	Gradient	MR:	Microrelief
FL:	Flood Risk	TX:	Topsoil Texture	DP:	Soil Depth
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:

<b>S</b> :	Sand	LS:	Loamy Sand	SL:	Sandy Loam
SZL:	Sandy Silt Loam	CL:	Clay Loam	ZCL:	Silty Clay Loam
ZL:	Silt Loam	SCL:	Sandy Clay Loam	<b>C</b> :	Clay
SC:	Sandy Clay	ZC:	Silty Clay	OL:	Organic Loam
<b>P</b> :	Peat	SP:	Sandy Peat	LP:	Loamy Peat
PL:	Peaty Loam	PS:	Peaty Sand	MZ:	Marine Light Silts

For the sand, loarny sand, sandy loarn and sandy silt loarn classes, the predominant size of sand fraction will be indicated by the use of the following 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 using Munsell notation.
- 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 using Munsell notation.
- 6. GLEY: If the soil horizon is gleyed a 'Y' will appear in this column. If slightly gleyed, an 'S' will appear.
- 7. STONE LITH: Stone Lithology one of the following is used:

HR:	all hard rocks and stones	FSST:	soft, fine grained sandstone
ZR:	soft, argillaceous, or silty rocks	CH:	chalk
MSST:	soft, medium grained sandstone	GS:	gravel with porous (soft) stones
SI:	soft weathered igneous/metamorphic rock	GH:	gravel with non-porous (hard) stones

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

8. STRUCT: the degree of development, size and shape of soil peds are described using the following notation:

Degree of development	e of development WK: ST:		MD:	moderately developed
Ped size	F: C:	fine coarse	М:	medium
Ped shape	S: GR: SAB: PL:	single grain granular sub-angular blocky platy	M: AB: PR:	massive angular blocky prismatic

9. CONSIST: Soil consistence is described using the following notation:

L: loose	FM: firm	EH: extremely hard
VF: very friable	VM: very firm	
FR: friable	EM: extremely firm	

 SUBS STR: Subsoil structural condition recorded for the purpose of calculating profile droughtiness: G: good M: moderate P: poor

- 11. POR: Soil porosity. If a soil horizon has less than 0.5% biopores >0.5 mm, a 'Y' will appear in this column.
- 12. IMP: If the profile is impenetrable to rooting a 'Y' will appear in this column at the appropriate horizon.
- 13. SPL: Slowly permeable layer. If the soil horizon is slowly permeable a 'Y' will appear in this column.
- 14. CALC: If the soil horizon is calcareous, a 'Y' will appear in this column.
- 15. 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

## LIST OF BORINGS HEADERS 09/12/97 AYLESBURY VALE LP SITE A

page 1

#### 

							·											
			ACOLOT							~	NTC .	м			DOST	CHEM	ALC	
	SAMPI Ю.	GRID REF	ASPECT		GLEY SPL		NESS			-PC AP		DRT	REL FLOOD	EROSN F EXP	ROST DIST			COMMENTS
	νΟ.	GRID KEP	USE	GRUNI	GLEF SPE	CLASS	GRADE	Ar	1.10	AF	ΠD		1 2000	LAI	5101			CONTIENTS.
	1	SP73300960	LEY			1	2	76	-32	82	-18	3B				DR	3A	SEE 17P
		SP73300940				1 '	2	141	33	103	3	2				WD	2	
	2	SP73400960	LEY			1	2	112	4	104	4	3A				DR	3A	SEE 14P
	2P	SP72800910	CER			1	1	113	5	96	-4	2				<b>D</b> R	2	
	3	SP73100950	LEY			1	2	76	-32	76	-24	3B				OR	3B	SEE 18P
-																		
	3P	SP72900880	CER		050	1	2	146	38	112	12	1				WK	2	
		SP73200950				1	2	107		100	0	3A				MD	2	SEE 2P
-		SP73300950				1	2	72	-36		-28	38				DR	38	SEE 15P
		SP73400950				1	2	105		97	-3	3A				WD	2	SEE 2P
	7	SP73500950	LEY		060	1	2	91	-17	97	-3	3A				WD	2	SEE 2P
	•	60706000F0	000		000		2	122	16	100	•	2				WD	2	
_		SP73600950 SP73000940			060	1	2 2	123 126		100 110	0 10					WD	2	
	9	SP73000940 SP73100940				1	2	115	. –	95	-5					WD	2	
	11	SP73200940				1	2	74	-34		-21	_				DR	 3B	SEE 17P
	12					1	2	94	-14		-8					WD	2	SEE 1P
Ĩ		••••••••				•	-		, -		-	-				-	-	
5	13	SP73400940	FAL			1	2	79	-29	88	-12	3B				DR	3A	SEE 16P
	14	SP73500940	PGR			1	2	69	-39	69	-31	38				DR	38	SEE 18P
	15	SP73600940	BRA			1	2	83	-25	95	-5	3B				DR	3A	SEE 19P
	16	SP73700940	BRA			1	2	120	12	99	-1	2				WD	2	
_	17	SP72900930	BRA			1	1	145	37	117	17	1					1	
	18	SP73000930	CER			1	2	88	-20	100	0	3A				DR		SEE 19P
-	19	SP73100930	CER			1	2	116	8	95	-5	2				WD	2	
_		SP73200930				1	2	77	-31		-18	3B				DR	34	SEE 16P
		SP73300930				1	2	72	-36		-25	3B				DR		SEE 16P
-	22	SP73400930	BRA			1	2	88	-20	94	-6	3A				DR	3A	SEE 19P
_		6072600030	000				2	110	2	105	c	3A				MD	2	SEE 1P
		SP73500930 SP73600930				1 1	2	91		103	5 3	3A				DR	-	SEE 16P
		SP73700930				1	2	56			-44					DR		SEE 18P
		SP72800920				1	1	136		111	11					DR	2	
		SP72900920				1	2	78	-30		-20	- 38				DR	3A	
	29	SP73000920	CER			1	2	72	-36	72	-28	3B				DR	3B	SEE 18P
_		SP73100920				1	2	104	-4	106	6	3A				DR	3A	SEE 19P
	31	SP73200920	CER			1	2	59	-49	59	-41	3B				DR	38	SEE 18P
	32	SP73300920	PGR			1	2	67	-41	67	-33	3B				DR	3B	SEE 18P
	33	SP73400920	BRA			1	2	82	-26	89	-11	3B				DR	3A	SEE 16P
		SP73500920				1	2	121		105	5	2				WD	2	
		SP73600920				1	2	107		102	2					WD	2	SEE 1P + 21P
		SP72700910				1	1	77	-31		-23	3B				DR	38	SEE 18P
		SP72800910				1	1	106		106	6	ЗА				ĐR	2	SEE 2P
_	39	SP72900910	CER			1	1	120	12	106	6	2				DR	2	
	40	001000000	050			•	2	101	-	100	~	34					2.	SEE 100
-		SP73000910				1	2	101		108	8					DR		SEE 19P SEE 16P
	41	SP73100910	UEK			1	2	82	-26	00	-12	20				DR	HC.	JEC TOP

.

•

LIST OF BORINGS HEADERS 09/12/97 AYLESBURY VALE LP SITE A

SAMP	LE	ASPECT				WET	NESS	-WH	EAT-	-P0	TS-	м.	.REL	EROSN	FROST	CHE	м	ALC		
NO.	GRID REF	USE	GRDNT	GLEY	SPL	CLASS	GRADE	AP	MB	AP	MB	DRT	FLOOD	ËX	P DIS	ST	LIMIT		COM	MENTS
_							_					_						_		
42						1.	2	108		99	-1	3A					WD	2	SEE	-
43	SP73300910					1	2	70	-38		-30	38					DR	38	SEE	
44	SP73400910					1	2	79	-29		-15	3B					DR	3A	SEE	
45	SP73500910					1	2	70	-38		-30	3B					DR	38	SEE	
46	SP72700900	OSR		S50		1	2	107	-1	107	7	3A					WD	2	SEE	2P
47	SP72800900	CER		060		1	2	100	_9	106	6	3A					DR	3A		
48	SP72900900			065	065	2	2	113		113	13	2					WD	2		
49	SP73000900			030	000	1	1	123		109	9	2					DR	2	SEE	21P
50	SP73100900			070		1	1	117		106	6	2					DR	2	SEE	
	SP73200900			060		1	2	95	-	108	8	3A					DR	3A	SEE	
51	0. /0200700	UL.		000		•	-	20			Ŭ						0.	~	022	
52	SP73300900	OSR				1	2	86	-22	98	-2	38					DR	3A	SEE	19P
53	SP73400900	OSR				1	2	88	-20	100	0	3A					DR	3A	SEE	19P
54	SP73500900	OSR				1	2	81	-27	87	-13	38					DR	3A	SEE	19P
55	SP72800890	OSR				1	2	78	-30	78	-22	38					DR	3B	SEE	18P
56	SP72900890	CER				1	2	116	8	108	8	2					WD	2	SEE	22P
57	SP73000890	CER		030		2	1	103	-5	106	6	3A					DR	3A	SEE	19P
58	SP73100890	PGR		0		2	2	123	15	113	13	2					WD	2	SEE	1P
59	SP73200890	OSR		050		1	2	88	-20	101	1	3A					DR	3A	SEE	19P
60	SP73300890	OSR				1	2	93	-15	102	2	3A					DR	3A	SEE	19P
61	SP73400890	OSR				1	2	106	-2	108	8	3A					DR	3A		
63	SP72900880			030		2	1	106		114	14	3A					DR	2	SEE	
64	SP73000880	PGR		0		2	2	116		118	18	2					WD	2	SEE	3P
65	SP73100880			030	030	3	3A	91	-17	105	5	3 <b>A</b>					WE	3A	SEE	
66	SP73200880			030		2	2	92	-16		6	3A					ÐR	3A	SEE	
67	SP73300880	ÓSR		030		2	2	85	-23	92	-8	38					DR	3A	SEE	19P
76		000		005		2	-	100				2						~		
70	SP73000870			025		2	2	125		117	17						WE	2		
71	SP73100870			030	000	2	2	119		117	17	2					WE	2		
72	SP73200870			030	030	3	2	110		118	18	3A					WD	2		
	SP73100860					1	2	127		116	16	2					WD	2		
75	SP73200860	USR		050		1	2	84	-24	90	-10	38					DR	3A	SEE	16P

#### COMPLETE LIST OF PROFILES 01/09/97 AYLESBURY VALE LP SITE A

#### 

						MOTTLES		PED			-st	ONES		STRUCT/	SI	JBS				
SA	MPLE	DEPTH	TEXTURE	COLOUR	COL		CONT							CONSIST			IMP SPI	CALC		
_																				
	1	0-40	с	10YR43 00							0		15					Y		
		40-60	с	10YR64 00						0	0	SLST	35		١	1		Y	IMP.	SLST
	1P	0-28	с	10YR43 00						0	0	uo	9					Ŷ		
		28-60	c	10YR66 00						0				WKCSAB F	D N	4		Ŷ		
		60-75	- hcl	10YR56 00						õ				WKCSAB F				Ý		
_		75-120	hc1	10YR56 00						0				WKMSAB F				Ŷ		
	2	0-35	c	10YR43 00						0	0	HR	10					Ŷ		
		35-50	С	10YR54 00						0	0		15		١	1		Y		
		50-100	c	10YR64 00						0	0	SLST	10		١	1		Y	AUGD	100
	2P	0-30	ms]	10YR42 00						0	01	uD	1					Ŷ		
	21	30-35	msl	10YR54 00						0			ן 50	WKCSAB F	RN	•		Ý		
	•	35-55	msl	25 Y54 00	10YR66	5 00 F				0	0	0201		WKCSAB F				Ŷ		
•		55-120	lms	25 Y64 00								SLST		WKCPL Y				Ŷ		
	3	0-30	hc1	10YR44 00						0	0 1	HR	10					Y		
-		30-50	с	10YR64 00						0	0 1	HR	15		۲	1		Y	IMP,	SLST
_																				
	3P	0-26	hcl	10YR53 00	100050	·					01		1					Y		
		26-50 50-120	hcl hcl	10YR54 00 25 Y64 00					Y		01			MDCPR F WKCSAB F				Y Y		
_		30-120		23 104 00	TOTRO	, 7   FI			T	U.	υ.	3631	10	MKGOAD F	Кľ	I		T		
	4	0-35	hc1	10YR44 00						0	0 1	HR	15					Y		
		35-100	с	10YR63 00								SLST	25		۲	l		Y	AUGD	100
_																				
	5	0-35	С	10YR43 00							01		15					Y		
		35-50	c	10YR63 00						0	0 }	IR	15		M			Y	IMP,	SLST
	6	0-40	с	10YR43-00						^	<u>.</u>	10	16							
		40-100		10YR53-00							0 1	SLST	15 25		м	1		Y Y	AUGD	100
			•							Ū	•		20					Ŧ	AUGD	100
_	7	0-40	с	10YR44 00						0	0 1	IR	15					γ		
		40-60	с	10YR63 00						0	0 P	IR	20		M			Ŷ		
-		60-80	c	10YR62 00	10YR56	00 C			Y	0	0 5	SLST	30		M			Y	AUGD	80
	8	0-40		10YR44 00						0			15					Y		
•		40-60 60-120	c c	10YR72 00	100050	00.0				0			15		M			Y		
		00-120	-	10YR72 00	01808				Ŷ	0	03	SLST	15		M			Y		
	9	0-40	hcl	10YR44 00						0	0 }	-(R	10					Y		
	-			25Y 54 00							0		0		M			Ŷ		
				25Y 54 00							0		0		M			Ŷ		
	10			10YR43 00							0 1		15					Y		
-		35-120	с	10YR44 00						0	0 5	SLST	30		М			Y		

page 2

				MOTTLES	PED		\$	TONES	STRUCT/	SUBS		
SAMPLE	DEPTH	TEXTURE	COLOUR							STR POR IMP SI	PL CALC	
							_		15			
11	0-30 30-60	c	10YR44 00 10YR62 56					HR SLST		м	Y Y	AUGD 60
	30-00	с	101802 30			0	Ű	3131			ſ	AUGD OU
12	0-35	с	10YR44 00			0	0	HR	15		Y	
	35-90	с	10YR56 62	10YR58 00 C		0		SLST	35	м	Y	AUGD 90
13	0-35	с	10YR44 00			0		HR	15		Y	
	35-65	с	10YR56 00	10YR58 00 C		0	0	HR	25	м	Ŷ	IMP, SLST
14	0-25	с	10YR43 00			0	^	HR	15		Ŷ	
	25-50	c		10YR56 00 C		0		HR	20	м	· Y	IMP, SLST
	-	-				-	-					<b>-</b>
15	0-40	с	10YR43 00			0	0	HR	15		Y	
	40-70	с	10YR53 00			0	0	HR	25	м	Y	IMP, SLST
							_					
16	0-45 45-60	c c	10YR43 00 10YR53 00			0 0		hr Hr	15 15	м	Y Y	
	43-00 60-120		107R53 00			0		SLST		M M	Ŷ	
		•				•	Ť	0201	20		•	
17	0-40	mcl	10YR44 00			0	0		0		Y	
	40-50	scl	10YR56 00			0	0		0	м	Y	
	50-90	msl	10YR56 00			0	0		0	м	Y	
	90-120	lms	25Y 56 00			0	0		0	М	Ŷ	
18	0-40	hcl	10YR44 00			0	0	HR	15		Y	
	40-60	c	10YR56 00			0		HR	20	м	Ŷ	
	60-70	с	10YR56 62			0	0	SLST	35	м	Y	AUGD 70
19	0-35	hc1	10YR43 00						15		Y	
	35-120	с	10YR44 62			0	0	SLST	35	м	Y	
20	0-40	с	10YR43 00			0	0	HR	15		Y	
	40-50	c		10YR56 00 F				HR	25	м	Ŷ	
	50-60	с	10YR56 62			0	0	SLST	35	м	Y	AUGD 60
21	0-30	c	10YR44 00					HR	15		Y	
	30-45 45-55	c	10YR56 00 10YR56 62					HR SLST	20	M M	Y	
	45-55	c	101830 02			0	Ű	SLST	33	(1	Ŷ	AUGD 55
22	0-35	с	10YR43 00			0	0	HR	15		Y	
	35-70	с	10YR44 00			0	0	HR	25	м	Y	
	70-80	с	10YR56 62			0	0	SLST	35	м	Y	AUGD 80
<u>^</u>	0.00	_	100044-00			^	~		10			
23	0-30 30-60	c c	10YR44 00 10YR56 00					HR HR	10 10	м	Y Y	
	60-90	mzcl	10YR72 00					HR	10	M	Ŷ	AUGD 90
						•	Ī				•	
24	0-30	c	10YR44 00			0	0	HR	10		Y	
	30-60	с	10YR56 00			0		HR	10	м	Y	
	60-70	hcl	10YR72 00			0	0	SLST	20	М	¥	AUGD 70

## COMPLETE LIST OF PROFILES 01/09/97 AYLESBURY VALE LP SITE A

					MOTTLES		PED		STON		- STRUCT/	SUBS				
SAMPLE	DEPTH	TEXTURE	COLOUR		ABUN	CONT					CONSIST		IMP SPL	CALC		
	0 00															
25	0-30	c	10YR44 00						0 HR					Ŷ	41100	
-	30-40	c	10YR56 00					0	U SL:	ST 35		М		Ŷ	AUGD	40
27	0~30	ms l	10YR42 00					0	0 HR	1				Y		
	30~100	ms 1	10YR54 00	10YR5	600F			0	0	0		м		Y	AUGD	100
<b>a</b> 28	0-30	ha]	10YR42 00					0	0 HR	15				U.		
	30-50	hc] c	107R42 00						0 SLS	15 57 20		м		Y Y		
-	50~55	hc1	10YR66 00						0 SLS			M		Ŷ	IMP,	SLST
-															-	
29	0~30	hc1	10YR42 00						0 HR					Y		
	30~50	c	10YR54 00					0	O SLS	ST 25		м		Y	IMP.	SLST
.30	0-30	hc1	10YR42 00					0	0 HR	10				Y		
	30~50	c	10YR54 00						0 SLS			м		Ŷ		
-	50~80	hc1	10YR66 00	10yr5	6 00 F				O SLS			м		Y	AUGD	80
31	0~30	hcl	10YR42 00						O HR	15				Y		
-	30-40	hcl	10YR66 00					0	O SLS	ST 25		M		Y	IMP,	SLST
32	0-30	c	10YR44 00					0	O HR	15				Y		
	30~50	с	10YR53 62					0	O SLS	ST 35		м		Y	AUGD	50
- 30	<b>A</b> 22							_								
33	0-30 30-60	c	10YR44 00						O HR	10				Y		~~
-	30~00	c	10YR62 56					0	0 SLS	51 15		M		Y	AUGD	<b>6</b> 0
34	0~30	с	10YR43 00					0	O HR	10				Y		
	30-110	с	10YR56 00					0	O SLS	T 10		м		Y	AUGD	110
35	0.00		100044 00					•		10						
	0~30 30~60	c c	10YR44 00 10YR56 00						O HR	10 10		м		Y Y		
	60~100		10YR62 56	10yr5	8 00 C				0 SLS			M M		Y	AUGD	100
-		-						•						•	AQ QD	,
37	0~30	ms l	10YR42 00					0	0 HR	1				Y		
	30-50	ms )	10YR54 00					0	O SLS	T 15		м		Y	IMP,	SLST
38	0~30	nsl	10YR42 00					n	0 HR	1				v		
	30~65	hc1	10YR54 00						0 NK 0 SLS			м		Y Y		
	65~90	Ims	25 Y54 00	10yr56	5 00 F			0		0		M		Ŷ	AUGD	90
<b></b>																
39	0~30	ms 1	10YR42 00	10					0 SLS					Y		
	30-80 80-90	ms]	10YR54 00	IUYR56	500 F				0 SLS			M		Y	41100	<u></u>
-	00~30	៣៩1	25 Y54 OO					U	0	U		M		Ŷ	AUGD	An
40	0-30	hc1	10YR42 00					0	0 HR	10				¥		
-		c	10YR54 00						O SES			м		Y		
-	70-80	c	10YR66 00					0	O SLS	т <i>2</i> 0		м		Y	IMP,	SLST

COMPLETE LIST OF PROFILES 01/09/97 AYLESBURY VALE LP SITE A

----STONES---- STRUCT/ SUBS ---- MOTTLES----- PED SAMPLE DEPTH TEXTURE COLOUR COL ABUN CONT COL. GLEY >2 >6 LITH TOT CONSIST STR POR IMP SPL CALC 0 0 HR 15 41 0-30 hc1 10YR53 00 Y • 0 0 SLST 15 v 30-50 10YR54 00 м с IMP, SLST 50-60 10YR66 00 0 0 SLST 20 M Y С 0 0 HR 15 42 0-30 10YR42 00 hc1 30-50 с 10YR54 00 0 0 SLST 15 м Y 10YR66 00 10YR56 00 F 0 0 SLST 25 Y AUGD 90 50-90 sc1 м 10YR42 00 0 0 HR 15 0-30 c 43 IMP, SLST 30-50 с 10YR54 00 0 0 SLST 25 М Y 10YR42 00 0-30 hc1 0 0 HR 15 ΔΔ 30-60 10YR66 00 0 0 SLST 25 Y IMP, SLST С M 45 0-30 с 10YR54 00 0 0 HR 15 IMP, SLST 30-50 ¢ 10YR66 00 0 0 SLST 25 Y М 10YR43 00 46 0-30 hc1 0 0 HR 10 Y 30-50 hc] 10YR54 00 10YR56 00 F 0 0 SLST 10 M Y 50-60 10YR54 00 10YR56 00 C S 0 0 SLST 10 с Μ Y 60–90 c 25 Y66 00 10YR56 00 C S 0 0 SLST 20 AUGD 90 Μ 47 0-30 hc1 10YR42 00 0 0 HR 10 ۷ 30-60 10YR53 00 10YR56 00 F 0 0 SLST 10 ç Μ Y 10YR54 64 10YR56 00 C 60-80 с Y 0 0 SLST 25 ¥ IMP, SLST м 48 0-30 hc1 10YR42 00 0 0 HR 10 ۷ 30-65 c 10YR54 00 0 0 0 M 10YR53 54 10YR56 00 C 00MN00 00 Y 0 0 65-90 0 Y v AUGD 90 с M 10YR42 00 49 0-30 0 0 HR 10 mc] 10YR53 54 10YR56 00 C Y 0 0 30-90 0 Y AUGD 90 ms 1 м 50 0-30 ms 1 10YR42 00 0 0 HR 10 Y 30-70 10YR53 00 10YR56 00 F 0 0 0 ms ] Μ 10YR64 00 10YR56 00 C Y 0 0 SLST 20 70-90 v AUGD 90 ms 1 М 10YR42 00 51 0-30 hc1 0 0 HR 10 Y 10YR54 00 30-60 0 0 SLST 10 с М Y 25 Y64 00 10YR56 00 C 60-70 hc1 Y 0 0 SLST 15 м Y AUGD 70 10YR42 00 0 0 HR 15 0-30 hc1 52 30-70 с 10YR54 00 0 0 SLST 25 Y IMP, SLST М 10YR42 00 53 0-30 hc1 0 0 HR 15 Y 30-45 c 10YR54 00 0 0 SLST 15 Μ 45-70 c 10YR66 00 0 0 SLST 25 М Y IMP, SLST

#### COMPLETE LIST OF PROFILES 01/09/97 AYLESBURY VALE LP SITE A

				MOTTLE	S	PED			st	ONES.		STRUCT/	SUBS			
SAMPLE	DEPTH	TEXTURE	COLOUR	COL ABUN			GLEY		-			•		IMP SPL CAL	:	
	0.05	L . 3	10/053 00					•	•							
54	0-25 25-50	hcl c	10YR53 00 10YR54 00					0		HR SLST	15		м	Y Y		
	23-30 50-60	c	10YR66 00					0		SLST			M	Ŷ	TMD	SLST
	30-00	Ļ	101800 00					U	0	3131	ζJ		T1	1	71.02.9	3631
55	0-25	hc1	10YR42 00					0	0	HR	10			Ŷ		
	25-50	hc1	10YR54 00					0	0	SLST	10		м	Y	IMP,	SLST
56	0-30	hcl	10YR42 00					o	0	цв	10			Ŷ		
	30-90	hcl		10YR56 00 F				0		SLST			м	Y	AUGD	90
_								Ŭ	Ŭ	0001				1		
57	0-30	ms]	10YR42 00					0	0	HR	10			Ŷ		
	30-70	ms l	10YR53 00	10YR56 00 C	:		Y	0	0		0		M	Y		
-	70-75	msl	10YR74 00	10YR56 00 C	•		Y	0	0	SLST	20		М	Y	IMP,	SLST
58	0-30	hc1	10YR42 00	10YR46 00 0			Y	0	0	чP	10			Y		
•	30-70	hc1		10YR56 00 C			Ŷ	o	0	,	0		м	Y		
-	70-90	msl		10YR56 00 C			Ŷ	0	0		0		M	Ŷ	IMP,	SLST
59	0-30	hc1	10YR42 00					0	0	HR	15			Ŷ		
-	30-50	с	10YR54 00					0		SLST			M	Ŷ		
	50-70	с	10YR66 64	10YR56 00 C			Ŷ	0	0	SLST	25		м	Y	IMP,	SLST
60	0-30	hcl	10YR42 00					0	0	HR	10			Y		
	30-40	c	10YR54 00					ō		SLST			м	· Y		
	40-70	hc1	25 Y64 74					0		SLST			м	Y	IMP,	SLST
_		_														
<b>6</b> 1	0-30	hcl	10YR42 00					0	0		10			Ŷ		
	30-40 40-80	hc]	10YR54 00	10YR56 00 F				0		SLST			M M	Y Y	41100	00
	40-80	hc1	23 104 74	101K30 00 F				0	0	SLST	10		11	Y	AUGD	80
63	0-30	ms 1	10YR53 00					0	0		0			Y		
	30-60	с	05Y 56 54	10YR56 00 C			Y	0	0		0		м	Ŷ		
	60-80	с	25 Y64 00	10YR56 00 C			Y	0	0	HR	10		м	Y	AUGD	80
64	0-30	h-1	100042-00	100055 00 0			v	~	•		~					
04	30-80	hc1 hc1		10YR56 00 C			Y Y	0 0			0 0		м	Y Y	AUGD	90
_	30-80		101833-00				Y	U	U		U		ы	T	AUGU	QU .
65	0-30	hc]	10YR42 00					0	0 1	HR	10			Y		
	30-60	c	10YR54 53	10YR56 00 C			Y	0	0 3	SLST	15		м	ΥY		
_	60-70	с	10YR66 00	10YR56 00 C			Y	0	0 3	SLST	25		м	Y	IMP,	SLST
	0.00		100053 00						•							
66	0-30	hc1	10YR53 00	104056 00 0					01		10		м	Y	THO	C1 C7
-	30-70	c	101604 53	10YR56 00 C			Y	U	0:	SLST	12		м	Ŷ	IWP,	SLST
67	0-30	hcl	10YR53 00					0	0 1	HR	10			Ŷ		
-	30-60	c	10YR64 76	10YR56 00 C			Y	0	0 3	SLST	15		м	Y	IMP,	SLST
	0.05		10/010 00								•					
70	0-25	hc]	10YR42 00	104056 00 0					0		0		м	Y		00
-	25-90	hcl	25 Y62 64	10YR56 00 C			Ŷ	0	0		0		м	Ŷ	AUGD	90

COMPLETE LIST OF PROFILES 01/09/97 AYLESBURY VALE LP SITE A

SAMPLE	DEPTH	TEXTURE	COLOUR		OTTLES ABUN	CONT						STRUCT/ CONSIST		R IMP	SPL	CALC		
				_				_										
71	0-30	hc1	10YR42 00					0	0		0					Y		
	30-60	hc1	10YR53 00	10YR56	00 C		Y	0	0		0		м			Y		
	60-65	hc1	10YR56 52	10YR58	52 C		Ŷ	0	0		0		м			Y		
	65-90	с	10YR66 64				Y	0	0	SLST	18		м			Y	AUGD	90
72	0-30	mc]	10YR42 00					D	0		0					Ŷ		
	30-80	с	10YR53 64	10YR56	00 C		Y	0			0		м		Y	Ŷ	AUGD	80
74A	0-30	hc]	10YR42 00					٥	0		Ō					Y		
	30-50	С	10YR54 00	10YR56	00 F				0		Ō		м			Ŷ		
	50-80	sci	10YR54 00					-	0		0		м			Ŷ		
	80-90	ന്ദി	10YR54 00					0	0		0		M			Ŷ	AUGD	90
75	0-30	hel	10YR42 00					0	0	HR	10					Y		
	30-50	с	10YR54 00							SLST			м			Ŷ		
	50-60	с	10YR66 64	10YR56	00 C		Y			SLST			M			Ŷ	IMP,	SLST

LIST OF BORINGS HEADERS 03/11/97 HADDENHAM A, JOINT VISIT

	SAMPL	.ε	A	SPECT				WET	NESS	-WH	EAT-	-P0	TS-	м.	REL	EROSN	FROST	СНЕМ	ALC	
	ю.	GRID REF	USE		GRDNT	GLEY	SPL	CLASS	GRADE	AP	MB	AP	MB	DRT	FLOOD	Ð	(P DIST	LIMIT		COMMENTS
	14P	SP73400960	SAS	NH	01			1	2	107	-1	108	8	3A				DR	3A	ROOTS & DR 85
	15P	SP73300950	SAS	NW	01			1 '	2	062	-46	063	-37	38				DR	3B	ROOTS & DR 65
	16P	SP73400940	SAS					1	2	092	-16	091	-9	3A				DR	3A	ROOTS & DR 80
	17P	SP73200940	SAS	NW	01			1	2	078	-30	079	-21	38				ÐR	3B	ROOTS & DR 60
	18P	SP73300920	SAS					1	2	054	-44	064	-36	38				DR	3B	ROOTS & DR 55
	19P	SP73100920	SAS	W	01			1	1	094	-14	093	-7	3A				DR	3A	ROOTS & DR 90
	20P	SP72800900	SAS	W	01			1	1	085	-23	086	-14	3B				DR	38	ROOTS & DR 75
	21P	SP73000900	SAS	W	01	057		1	1	123	15	113	13	2				DR	2	ROOTS & DR 105
-	22P	SP72900890	SAS	W	01	074		1	1	132	24	098	-2	2				DR	2	ROOTS & DR 120
	23P	SP73000870	SAS	W	01	053 0	)65	2	2	135	27	114	14	2				WD	2	ROOTS & DR 120

COMPLETE LIST OF PROFILES 03/11/97 HADDENHAM A, JOINT VISIT

							DEU		_	-STO			STRUCT/	2812			
SAMPLE	DEPTH	TEXTURE	COLOUR	COL											R IMP SPL	CALC	
									-		••••						
14P	0-27	hcl	10YR43 00						2	0 5	LST	5				Y	
	27-40	с	10YR54 56						0	0 S	LST	5	MDMSAB	FM G		Y	Common roots
	40-60	с	10YR54 56						0	0 S	lst	35		м		Y	Common roots
	60-85	hc1	25 Y72 73	10YR64	66 C				0	0 SI	LST	10	MASSVE	FMP		Y	Few roots
	85-120	slst	25 Y72 00						0	0		0		Р		Y	Non-rootable
15P	0-25	hc]	10YR43 00							0 SI						Y	
	25-35	с	10YR54 56							0 SI	LST			м		Y	Common roots
-	35-65	sist	25 Y73 00						-	0		0		Ρ		¥	Few roots
•	65-120	slst	25 Y73 00						0	0		0		Р		Ŷ	Non-rootable
16P	0-34	hcl	10YR43 00						2	0 SI	LST	5				Y	
	34-50	c	10YR44 00						0	0 SI	LST	8	MDCSAB I	тм м		Y	Common roots
<b>.</b> .	50-80	slst	25 Y73 00						0	0		0		P		Y	Few roots
	80-120	slst	25 Y73 00						0	0		0		P		Y	Non-rootable
17P	0-28	hc1	10YR43 00						3	0 SI	LST	8				Y	
	28-45	hc1	25 Y64 74						0	0 SI	LST	35	MDMSAB I	RG		Y	Common roots
	45-60	slst	25 Y73 OO						0	0		0		Р		Y	Few roots
	60-85	sist	25 Y73 00						0	0		0		Ρ		Y	Dense, no roots
	85-120	slst	25 Y73 00						0	0		0		P		Y	Hard, no roots
18P	0-30	hc1	10YR43 44						0	0		0				Y	
-	30-55	slst	25 Y73 00						0	0		0		P		Y	Few roots
	55-90	slst	25 Y73 00						0	0		0		P		Y	Dense, no roots
	90-120	slst	25 Y73 00						0	0		0		P		У	Hard, no roots
19P	0-30	mcl	10YR43 00						2	0 SI	ST	5				Y	
	30-40	c	10YR54 56						0	0 SI	_ST	45	MDMSAB P	RG		Y	Common roots
	40-55	hcl	25 Y64 00	10YR56	00 C				0	0 SI	_ST	15	MDCSAB F	RM		Y	Common roots
	55-90	sist	25 Y63 OO						0	0		0		Р		Y	Rootable
	90-120	slst	25 Y73 00						0	0		0		Ρ		Y	Non-rootable
20P	0-28	mcl	10YR43 00						0	0 SI	ST	2				¥	
	28-45	hcl	10YR54 56						0	o si	_ST	5	MDCSAB F	RM		Y	Common roots
	45-75	slst	05 Y72 00						0	0		0		Р		Y	Rootable
-	75–120	slst	25 Y73 00						0	0		0		Ρ		Y	Non-rootable
21P	0-30	mcl	10YR42 00						0	0 SL	_ST	2				Y	
-	30-57	scl	10YR54 56						0	0		0	WKCSAB F	RM		Y	Common roots
	57-75	scl	25 Y54 00	25 Y56	00 C	00	OMNOO C	00 S	0	0		0	WKCSAB F	RM		Y	Few roots
1	75-105	lms	25 Y64 00 0	05 Y73	00 C	25	5 Y56 C	0 S	0	0		0	WKCOAB V	F M		Y	Few roots
-	105-120	slst	25 Y73 00						0	0		0		Ρ		Y	Non-rootable
22P	0-30	mcl	10YR43 00						0	o si	.ST	2				Y	
	30-45	hcl	25 Y55 64						0	O SL	.ST	5	MDCSAB F	RM		Y	
	45-74	mc)	25 Y73 64						0	o sl	ST -	60		м		Y	
	74-95	scl	05 Y64 00 3	25 Y56	00 C			Y	0	Ð		0	WKCOAB F	RM		Y	
	95~120	hcl	25 Y64 66 3	25 Y66	00 C			Y	0	0 SL	.ST	10	WKCOPL F	RP		Y	

.

٠

.

COMPLETE LIST OF PROFILES 03/11/97 HADDENHAM A, JOINT VISIT

				MOTT	LES	PED	STONES STRUCT/ SUBS	
SAMPLE	DEPTH	TEXTURE	COLOUR	COL ABU	N CONT	COL.	. GLEY >2 >6 LITH TOT CONSIST STR POR IMP SPL CALC	:
		_						
23P	0-25	mcl	10YR33 00				0 0 SLST 2 Y	
	25-53	hc1	10YR54 56				0 0 0 MDCSAB FR M Y	
	53-65	hcl	25 Y54 00	25 Y56 00	С		S 0 0 SLST 5 MDCSAB FR M Y	
	65-120	с	25 Y64 00	10YR66 00	С		Y 0 0 SLST 10 WKCSAB FM P Y Y Y	

page 2

•