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Midgham Farm, Fordingbridge, Hampshire Statement of Physical Characteristics Map and Report August 1993

STATEMENT OF PHYSICAL CHARACTERISTICS

LAND AT MIDGHAM FARM, FORDINGBRIDGE

1. <u>INTRODUCTION</u>

- 1.1 In July 1993 approximately 108 hectares of land at Midgham Farm, near Fordingbridge, Hampshire, was surveyed in connection with proposals for gravel extraction and restoration under the 1981 Minerals Act. ADAS was commissioned by MAFF's Land Use Planning Unit to determine the land quality and site physical characteristics of the land affected by the proposals.
- 1.2 The survey was conducted by members of the Resource Planning Team, Guildford Statutory Group at an observation density of approximately one boring per hectare. A total of 99 borings and eight soil inspection pits 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 long term limitations on its use for agriculture.

At the time of survey, the majority of the site was pasture, with an area of wheat to the south west.

1.3 The distribution of the grades and subgrades is shown on the attached ALC map and the area and extent 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 may be misleading. This map supersedes any previous information for the site.

Table 1: Distribution of Grades and Subgrades

,	Area (ha)	% of Total Site	% of agricultural area
Grade 3A	58.1	50.4	53.6
3B	_50.2	43.6	<u>46.4</u>
Total agricultural area	108.3		100.0
Non-Agricultural	0.7	0.6	
Urban	0.4	0.4	
Farm Buildings	0.1	0.1	
Woodland	<u> 5.7 </u>	<u>4.9</u>	
Total Area of Site	115.2	100.0	

2. CLIMATE

2.1 Climatic criteria are considered first when classifying land since 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 Estimates of climatic variables relevant to the assessment of land quality were obtained by interpolation from a 5 km grid point dataset, (Met. Office, 1989) for a representative location in the survey area.

Table 2: Climatic Interpolation

Grid Reference	SU 139122	SU 130126
Altitude (m, AOD)	50	50
Accumulated Temperature	1506	1501
(°days, Jan-June)		
Average Annual Rainfall (mm)	878	880
Field Capacity Days	181	182
Moisture deficit, wheat (mm)	105	104
Moisture deficit, potatoes (mm)	98	97

2.3 The main parameters used in the assessment of an overall climatic limitation are, average annual rainfall, a measure of overall wetness, and accumulated temperature, as a measure of the relative warmth of a locality. In this instance, climate does not represent an overall limitation to agricultural land quality. In addition, no local climatic factors such as exposure or frost risk are significant to the grading on this site. However, climatic factors, specifically field capacity days and soil moisture deficits, do interact with soil factors to influence soil wetness and droughtiness limitations.

3. RELIEF

3.1 The site lies at an altitude of 50-55 m AOD. The area rises very gently from south east to north west lying as a plateau to the west and above the main River Avon flood plain. Nowhere on the site do altitude or gradient affect agricultural land quality.

4. GEOLOGY AND SOILS

- 4.1 British Geological Survey, Sheet 314, Ringwood (1976) shows the majority of the site to be underlain by Recent and Pleistocene Plateau Gravel deposits, with Eocene Bagshot Beds occurring periodically around the periphery of the surveyed area.
- 4.2 The Soil Survey of England and Wales, Soils of South East England (1983) shows the area to be underlain by 3 soil associations:
 - i. 812a Frome, a shallow calcareous and non calcareous loamy soil over flint gravel affected by groundwater, and alluvial gley soils which are wet only in winter. Soils of this nature covered the majority of the site.
 - ii. 581b Sonning 1 Well drained flinty coarse loamy and sandy soils mainly found over gravel. Some coarse loamy over clayey soils with slowly permeable subsoils. Soils of this nature were occasionally found on the site.
 - iii. 571w Hucklebrook, well drained coarse loamy and some sandy soils, commonly over gravel. Some soils are affected by groundwater. Soils of this type were occasionally found across the site.

5. AGRICULTURAL LAND CLASSIFICATION

5.1 The ALC grading of the site is primarily determined by the interaction between soil and climatic factors. Most of the site has been graded moderate quality, grade 3B, on the basis of both droughtiness and wetness limitation dependent on location. A significant area has been assigned good quality, grade 3A, on similar though less severe limitations.

Due to the dry and stony soil conditions encountered at this site at the time of survey, the ALC map has been drawn with dotted lines at the grade boundaries where there may be a possibility of slight variation, due to the fact that many of the soil observation points were impenetrable (to soil auger) at limited depths, such that the majority of the grading is based on pit observations.

- 5.2 Table 1 provides details of the area and extent of each grade. The distribution of ALC grades is shown on the attached ALC map.
- 5.3 The location of the soil observation points is shown on the attached auger boring map.

5.4 **Grade 3A**

Land of good quality has been assigned to approximately half the agricultural area of the site. Soils within this area are separately limited by droughtiness and wetness. Profiles limited by droughtiness typically comprise a medium clay loam or sandy clay loam topsoil containing up to 5% total flints by volume. Subsoil textures are variable ranging from occasional medium sandy loam through common medium clay loam and sandy clay loams to less common heavy clay loams and clays. Stone contents also vary from a minimum of approximately 3% flints by volume to approximately 30% close to the sand and gravel aggregate underlying the soil.

Many of the observation points were found to be impenetrable (to soil auger) due to the combination of soil stoniness and dry soil conditions prevalent at the time of survey, such that it was difficult to ascertain in many cases the exact depth to the gravel deposit.

An area to the north west of the site on slightly higher ground was found to contain soils limited by wetness. These profiles typically comprise a medium clay loam or sandy clay loam topsoil containing approximately 3% total flints by volume over a similar upper subsoil showing evidence of gleying and becoming heavier with depth such that by approximately 60-70 cm a slowly permeable clay layer was encountered containing approximately 5% flints by volume. These profiles occasionally become sandier beyond 100 cm. The slowly permeable horizon leads to a wetness class II (see Appendix II) classification, which with the relatively wet climate prevalent in the area leads to Grade 3A being appropriate.

5.5 Grade 3B

Moderate quality land has been mapped to the remaining area under agricultural use. Soils within this area are similarly, though more severely limited than those described above in section 5.4. As such topsoils are of similar texture but in a number of cases contain a higher total flint content to a maximum of 13%. Subsoil textures are,

however, less variable than those assigned to the higher grade (section 5.4), being mostly moderately to very stony (up to 50% flints by volume) medium clay loams or sandy clay loams, occasionally medium sandy loam immediately above the gravel, which generally occurs at a shallower depth and thus creates a more severe droughtiness limitation than those assigned to the higher grade.

The land towards the north west of the site assigned to this grade is limited by wetness. Topsoils in this area are similar to those encountered in the area which is wetness limited in section 5.4, as are the subsoils. The difference here is that the slowly permeable clay horizon occurs higher in the profile such that wetness classes III and IV (see Appendix II) are appropriate and consequent grade 3B.

6. SOIL RESOURCES

Soil Units: Consideration for Restoration

6.1 The following section and the accompanying soil resource maps describe the pattern of topsoil and subsoil resources on the site. It should be emphasised that the maps are not soil stripping maps, but merely an illustration of the soil resources available for restoration on the site. When considering these details it is important to remember that soils were sampled to a maximum depth of 120 cm during survey work. In some cases soil resources will extend below this depth.

6.2 Topsoils

Two topsoil units were identified:-

<u>Unit 1</u>: This comprises an average 28.2 cm of dark greyish brown, brown, dark brown or dark yellowish brown (10YR 4/2, 10YR 4/3, 10YR 5/3, 75YR 4/4, or 10YR 4/4) medium clay loam or less commonly sandy clay loam. These topsoils were found to be non-calcareous and slightly stony typically containing up to 9% total flints by volume.

Where it was possible to ascertain structure, it was found to be of moderate form, having weakly developed coarse subangular peds of very friable consistence. They are very porous and well rooted.

<u>Unit 2</u>: This comprises an average of 29.0 cm of similar colour and similar texture soil to that described in Unit 1. The principal difference being the stone content which is higher, containing between 10 and 13% total flints by volume.

Where it was possible to ascertain structure, it was found to be of moderate form, having weakly developed coarse subangular peds of very friable consistence. They are porous and very well rooted.

6.3 Subsoils

Three subsoil units are identified:-

<u>Unit 1</u>: This unit covers the majority of the site and has a variable nature. It comprises an average of 42.8 cm of soil material over sand and gravel aggregate. The soil themselves are in two horizons, the upper consists of 20.0 cm of strong brown, dark yellowish brown or yellowish brown (10YR 4/4, 10YR 4/6, 10YR 5/4 or 75YR 4/4) medium clay loam, heavy clay loam or sandy clay loam containing between 5 and 15% flints by volume. The lower subsoil consists of 22.8 cm of dark yellowish brown to stony brown (10YR 4/4, 10YR 4/6 or 75YR 5/6) medium clay loam, sandy clay loam, heavy clay loam or clay lying directly over the gravel horizon. The horizon commonly contains between 26 and 40% flints by volume. Occasionally up to 65% close to the gravel boundary.

Structures within this unit were on occasion difficult to assess due to high stone content within the soil, but were commonly found to be moderately good, comprising moderately well developed coarse subangular peds of friable consistence in the upper horizon and either similar or moderately well developed angular peds of friable consistence in the lower horizon. Pits 2, 4, 5, and 8 described at Appendix III are typical of this subsoil unit.

<u>Unit 2</u>: This subsoil unit occurs in 2 areas of the site, to the north and south. Soils in these areas were found to be noticeably more stony than elsewhere on the site. The unit comprises an average of 13.9 cm of dark brown to dark yellowish brown (10YR 4/3 or 10YR 4/4) medium clay loam or sandy clay loam soil material containing between 30 and 50% total flints by volume overlying sand and gravel aggregate.

Due to the stony nature of this unit it was not possible to assess structural condition. Pits 1, 6, and 7 appertaining to this unit are described in Appendix III.

<u>Unit 3</u>: This subsoil unit occurs towards the north west of the site on slightly higher ground. It consists of three horizons comprising an average 100.9 cm of soil material. Soils in this area are heavier than elsewhere on the site and commonly contain fewer stones. The unit comprises medium clay loam or sandy clay loam passing to heavy clay loam around 32 cm over a slowly permeable layer at an average depth of 55.2 cm. There is a drainage impedance with surface water gleying evident in the upper subsoil from an average 20 cm depth. This is likely to result from the slow permeability of the clay horizon in the lower subsoil. These pale brown (10YR 6/4 - 7/4) to brown (10YR 5/2 - 5/3) subsoils contain between 3 and 8% total flints by volume. The upper subsoils in this unit are moderately structured, comprising moderately well developed coarse subangular blocky peds of friable consistence. The lower subsoil clays however are of poor structure, these comprise a weakly developed coarse subangular blocky structure of firm consistence. This horizon also contains fewer than 0.5% biopores. Pit 3 described at Appendix III is typical of this subsoil unit.

August 1993

ADAS Ref. 1508/90/93 MAFF Ref. EL 15/363 Resource Planning Team Guildford Statutory Group ADAS Reading

SOURCES OF REFERENCE

- British Geological Survey (1976) Sheet 314, Ringwood, 1:50,000 Drift edition.
- British Geological Survey (1980) Mineral Assessment Report 50, Fordingbridge, Hampshire.
- 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 (1983) Sheet 6, Soils of South-East England, 1:250,000 and accompanying legend.

APPENDIX 1 DESCRIPTION OF THE GRADES AND SUBGRADES

The ALC grades and subgrades are described below in terms of the types of limitation which can occur, typical cropping range and the expected level and consistency of yield. In practice,, the grades are defined by reference to physical characteristics and the grading guidance and cut-offs for limitation factors in Section 3 enable land to be ranked in accordance with these general descriptions. The most productive and flexible land falls into Grades 1 and 2 and Subgrade 3a and collectively comprises about one-third of the agricultural land in England and Wales. About half the land is of moderate quality in Subgrade 3b or poor quality in Grade 4. Although less significant on a national scale such land can be locally valuable to agriculture and the rural economy where poorer farmland predominates. The remainder is very poor quality land in Grade 5, which mostly occurs in the uplands.

Descriptions are also given of other land categories which may be used on ALC maps.

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 and horticultural crops can usually be grown but on some land in 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. Where 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 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.

Descriptions of other land categories used on ALC maps

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/airfields. Also active mineral working 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 (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 land cover types, eg buildings in large grounds, and where map scale permits, the cover types may be shown separately. Otherwise, the most extensive cover type will usually be shown.

APPENDIX II

FIELD ASSESSMENT OF SOIL WETNESS CLASS

Definition of Soil Wetness Classes

Wetness Class	Duration of Waterlogging ¹
I	The soil profile is not wet within 70 cm depth for more than 30 days in most years ² .
II	The soil profile is wet within 70 cm depth for 31-90 days in most years <u>or</u> , if there is no slowly permeable layer within 80 cm depth, it is wet within 70 cm for more than 90 days, but not wet within 40 cm depth for more than 30 days in most years.
III	The soil profile is wet within 70 cm depth for 91-180 days in most years <u>or</u> , 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 between 31 and 90 days in most years.
IV	The soil profile is wet within 70 cm depth for more than 180 days but not within 40 cm depth for more than 210 days in most years <u>or</u> , if there is no slowly permeable layer within 80 cm depth, it is wet within 40 cm depth for 91-210 days in most years.
V	The soil profile is wet within 40 cm depth for 211-335 days in most years.
VI	The soil profile is wet within 40 cm depth for more than 335 days in most years.

¹ The number of days specified is not necessarily a continuous period.

² '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

* Database Printout : Boring Level Information

* Database Printout: Horizon Level Information

SOIL PROFILE DESCRIPTIONS: EXPLANATORY NOTE

Soil profile and pit information obtained during ALC surveys is held on a database. This has commonly used notations and abbreviations as set out below.

BORING HEADERS

- 1. GRID REF: National grid square followed by 8 figure grid reference.
- 2. USE: Land-use at the time of survey.

 The following abbreviations are used.

ARA - arable PAS/PGR - permanent pasture WHT - wheat RGR - rough grazing BAR - barley LEY - ley grassland CER - cereals CFW - coniferous woodland DCW - deciduous woodland OAT - oats MZE - maize SCR - scrub OSR - oilseed rape HTH - heathland BEN - field beans BOG - bog or marsh BRA - brassicae FLW - fallow PLO - ploughed POT - potatoes SBT - sugarbeet SAS - set-aside FDC - fodder crops OTH - other FRT - soft and top fruit LIN - linseed HOR/HRT - horticultural crops

- individual diops
- 3. GRDNT: Gradient as measured by optical reading clinometer.
- 4. GLEY/SPL: Depth in centimetres (cm) to gleyed and/or slowly permeable horizons.
- 5. AP (WHEAT/POTS) : Crop-adjusted available water capacity. The amount of soil water (in millimetres) held in the soil profile that is available to a growing crop (wheat and potatoes are used as reference crops).
- 6. MB (WHEAT/POTS): The moisture balance for wheat and potatoes obtained by subtracting the soil moisture deficit from the crop-adjusted available water capacity.
- 7. DRT: Grade according to soil droughtiness assessed against soil moisture balances.

8.	FLOOD EROSN EXP	: Soil erosion	If any of these factors are considered significant in terms of the assessment of agricultural land quality a 'y' will be entered in the relevant column.
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9. LIMIT: Principal limitation to agricultural land quality.
The following abbreviations are used:

OC - overall climate

CH - chemical limitations

AE - aspect

WE - wetness

EX - exposure

WK - workability

FR - frost GR - gradient

DR - drought

MR- micro-relief

ER - erosion

FL - flooding

WD - combined soil wetness/soil

TL - Hooding

droughtiness

TX - soil texture

ST - topsoil stoniness

DP - soil depth

PROFILES & PITS

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

S - sand

LS - loamy sand

SL - sandy loam

SZL - sandy silt loam

ZL - silt loam

MZCL - medium silty clay loam

MCL - medium clay loam

SCL - sandy clay loam

HZCL - heavy silty clay loam

HCL - heavy clay loam

SC - sandy clay

ZC - silty clay

C - clay

For the sand, loamy sand, sandy loam and sandy silt loam classes, the predominant size of sand fraction may be indicated by the use of prefixes.

F - fine (more than $\frac{2}{3}$ of the sand less than 0.2 mm)

C - coarse (more than 1/3 of sand greater than 0.6 mm)

M - medium (less than ²/₃ fine sand and less than ¹/₃ coarse sand)

The sub-divisions of clay loam and silty clay loam classes according to clay content are indicated as follows:

M - medium (less than 27% clay)

H - heavy (27-35% clay)

Other possible texture classes include:

OL - organic loam

P - peat

SP - sandy peat

LP - loamy peat

PL - peaty loam

PS - peaty sand

MZ - marine light silts

- 2. MOTTLE COL: Mottle colour
- 3. MOTTLE ABUN: Mottle abundance

F - few - less than 2% of matrix or surface described

C - common - 2-20% of the matrix

M - many - 20-40% of the matrix

VM - very many - 40% + of the matrix

- 4. MOTTLE CONT: Mottle continuity
 - F faint indistinct mottles, evident only on close examination
 - 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: Stone lithology. One of the following is used.

HR - all hard rocks or stones

MSST - soft, medium or coarse grained sandstone

SI - soft weathered igneous or metamorphic

SLST - soft oolitic or dolomitic 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.
 - <u>degree of development</u> WK weakly developed

MD - moderately developed

ST - strongly well developed

- ped size

F - fine

M - medium C - coarse

VC - very coarse

- ped shape

S - single grain

M - massive GR - granular

SB/SAB - sub-angular blocky

AB - angular blocky

PR - prismatic

PL - platy

8. CONSIST: Soil consistence is decribed 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

1					MOTTLES		PED			S	TONES-		STRUCT	,	SUBS			
AMPLE	DEPTH	TEXTURE	COLOUR		ABUN	CONT							CONSIST			R IMP	· SPL	CALC
1	0-30	scl	10YR43 00						0	0	HR	10						
	30-40	scl	10YR44 00						0	0	HR	10			M			
	40-70	ms]	10YR66 00		•				0	0	HR	15			М			
•	70-78	msl	10YR66 00						٥	0	HR	30			М			
1P	0-24	scl	10YR43 00						8	0	HR	30						
	24-55	scl	10YR44 00						0	0	HR	30	WKCOAB	۷F	M			
1	55-120	gh	00ZZ00 00						0	0	1	0			Ρ			
2	0-29	scl	10YR43 00						0	0	HR	10						
	29-50	scl	10YR44 00						0	0	HR	10			M			
	50-60	scl	10YR44 00						0	0	HR	20			М			
2P	0-28	mc \	10YR43 00						2	0	HR	6	WCSAB	۷F	М			
	28-35	mcl	10YR53 00						0	0	HR	8	MCSAB	FR	R M			
	35-70	C	75YR66 53						0	0	HR	4	MCSAB	FR	M			
_	70-75	C	75YR66 53						0	0	HR	30			М			
	75–120	gh	00ZZ00 00						0	0)	0			Р			
3	0-29	mcl	10YR43 00						0	0	HR	10						
	29-55	scl	10YR44 00						0		HR	10			M			
	55–62	scl	10YR44 54						0	0	HR	15			М			
3 P	0-33	scl	10YR43 00						0		HR		WCSAB	VF	М			
	33-53	scl	10YR74 53				00ZZ00		0	C	HR	3	MCSAB		R M			
	53-85	sc	10YR64 52	75YR	58 61 C		00MN00	00 Y	0	C	HR	8	WCSAB	F	1 P Y		Y	
4	0-25	sc1	10YR42 00						0) HR	20						
	25–120	gh	00ZZ00 00						0	C)	0			Р			
■ 4P	0-26	mc1	10YR43 00						2		HR	18						
	26-45	mc]	10YR44 00						0		HR	8			М			
_	45-62	scl	75YR56 00						0	_	HR	15			M			
_	62-70	C .	05YR56 58						0		HR	26			G			
	70-120	gh	00ZZ00 00						0	C)	0			Р			
_ 5	0-30	scl	10YR44 00						0	C	HR	20						
5P	0-28	mcl	10YR43 00						2	C	HR	9	WDCSAB	Vf	M			
_	28-41	mcl	10YR44 00	1					0		HR	33			M			
-	41-58	mc1	10YR46 00	1					0	0) HR	43			M			
	58~120	gh	75YR46 00	ļ					0	()	0			Р			
_ 6	0-25	scl	10YR43 00						8		HR	48						
I	25-40	scl	10YR44 00)					0	(HF:	50			M			
6P	0-25	scl	10YR43 00						8		HR	48						
	25-40	scl	10YR44 00						0		HR	50			М			
	40-65	ms 1	10YR46 00	1					0	(HR	50			М			

0-25

25-40

mc l

mc l

20

10YR44 00

10YR64 00

----MOTTLES---- PED ----STONES---- STRUCT/ SUBS SAMPLE DEPTH TEXTURE COLOUR COL ABUN CONT COL. GLEY >2 >6 LITH TOT CONSIST STR POR IMP SPL CALC 0-30 10YR44 00 10YR58 61 C mc1 0 0 ٥ Υ 30-60 10YR56 00 hc1 Y 0 0 0 М 60-85 scl 10YR64 00 0 0 0 М 85-100 ms1 10YR64 Q0 0 0 0 м 0-29 10YR42 00 3 0 HR 13 29-120 gh 10YR43 00 0 0 0 0-25 10YR53 00 10YR58 61 C mc1 0 0 ۵ 25-60 10YR53 00 10YR58 61 C hcl 00MN00 00 Y 0 0 0 60-100 c 10YR52 00 10YR58 61 C OOMNOO OO Y O O HR 10 8P 0-25 mcl 10YR43 00 3 0 HR 6 WKMSAB VF G 25-52 hc1 10YR44 00 0 0 HR 20 MDCOAB VF M 52-62 hcl 10YR44 46 0 0 HR 30 62-76 75YR56 00 С 0 0 HR 65 М 76-120 gh 00ZZ00 00 0 0 0 Ρ 0-30 10YR44 00 scl 0 0 HR 20 30-40 scl 10YR44 46 0 0 HR 20 М 0-40 10YR43 00 12 നേടി 0 0 0 40-100 10YR53 00 00MN00 00 F hc1 0 0 0 м 0~30 10YR42 00 mc] 0 0 0 10YR64 00 30-40 mc1 0 0 HR 5 40-60 10YR66 00 scl 0 0 HR 10 М 0-25 mcl 10YR43 Q0 0 0 HR 25-50 mc1 10YR54 00 0 0 HR 6 0-25 10YR53 00 mc? 0 0 0 25-40 hc1 10YR53 54 10YR58 61 C 0 0 0 М 40-100 sc 25Y 64 68 05YR58 71 C 0 0 0 Υ 10YR53 00 17 0-30 0 0 0 mc1 10YR52 00 10YR58 61 C 30-50 scl 0 0 HR 10 0-25 10YR43 00 18 mc1 0 0 0 25-45 10YR54 00 mc1 0 0 0 М 45-70 ms 1 10YR66 00 0 0 HR 10 0-20 10YR42 00 mc1 0 0 0 20-40 10YR52 00 mc1 0 0 HR 5 40-65 10YR66 00 0 0 HR scl 10 М

0 0

0 0 HR

0

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30-45 sc1 10YR46 00 0 0 HR 10 M 41 0-30 sc1 10YR43 00 0 0 HR 10 42 0-32 mc1 10YR43 00 0 0 HR 10 43 0-28 mc1 10YR42 00 0 0 HR 3 28-35 mc1 10YR44 00 0 0 HR 10 M 44 0-25 mc1 10YR44 54 0 0 HR 10 M 35-47 mc1 10YR44 54 0 0 0 HR 10 M 45 0-30 mc1 10YR44 00 0 0 HR 10 M 45 0-30 mc1 10YR44 00 0 0 HR 3 30-45 hc1 10YR54 00 0 0 HR 3 45-80 c 25Y 62 00 75YR58 00 M Y 0 0 HR 5														M			
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42 0-32 mc1 10YR43 00	10													М			
43 0-28 mc1 10YR42 00	41	0-30 s	c1	10YR43 00						0	O HR	10					
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44 0-25 mc1 10YR43 00 0 0 HR 5 25-35 mc1 10YR44 54 0 0 0 HR 10 M 35-47 mc1 10YR54 00 0 0 HR 10 M 45 0-30 mc1 10YR44 00 0 0 HR 3 30-45 hc1 10YR54 00 0 0 HR 3 M 45-80 c 25Y 62 00 75YR58 00 M Y 0 0 HR 5 P	43	0-28 m	ıc1	10YR42 00						0	O HR	3					
25-35 mc1 10YR44 54 0 0 0 HR 10 M 35-47 mc1 10YR54 00 0 0 HR 10 M 45 0-30 mc1 10YR44 00 0 0 HR 3 30-45 hc1 10YR54 00 0 0 HR 3 M 45-80 c 25Y 62 00 75YR58 00 M Y 0 0 HR 5 P		28-35 m	ic)	10YR44 00						0	O HR	10		М			
35-47 mc1 10YR54 00 0 0 HR 10 M 45 0-30 mc1 10YR44 00 0 0 HR 3 30-45 hc1 10YR54 00 0 HR 3 M 45-80 c 25Y 62 00 75YR58 00 M Y 0 0 HR 5 P	44	0-25 m	nc1	10YR43 00						0	0 HR	5					
45 0-30 mc1 10YR44 00		25-35 m	rc1	10YR44 54						0	0 HR	10		М			
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			ic1	10YR54 00						0	O HR	3		М			
80-120 sc 75YR58 00 25Y 52 00 M Y 0 0 HR 10 P		45-80 c	:	25Y 62 00	75YR5	8 00 M			Υ	0	0 HR	5		P		Y	
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					OTTLES								STRUCT/				
AMPLE	DEPTH	TEXTURE	COLOUR	COL /	ABUN	CONT	COL.	GLEY	>2	>6	LITH	TOT	CONSIST	STR POR	IMP	SPL	CALC
46	0-33	mcl	10YR43 00						0	0	HR	3					
1	33-45	hcl	10YR54 00					٠	0	0	HR	2		М			
•	45-60	hc1	10YR53 00	10YR56	00 C			Υ	0	0	HR	2		М			
.	60-95	С	25Y 63 00	75YR58	00 M			Y	0	0	HR	5		Р		Y	
	95–120	sc	25Y 62 00	75YR56	00 M			Y	0	0	HP.	15		P		Y	
47	0-30	mc)	10YR44 00						0	0	HR	3					
	30-65	msl	75YR44 00						0	0	HR	5		М			
48	0-30	mcl	10YR43 00						0	0	HR	5					
	30-43	scl	10YR44 00						0	0	HR	10		М			
	43-45	scl	10YR44 00						0	0	HR	20		М			
49	0-26	mcl	10YR43 00						0	0	HR	5					
	26-40	mcl	75YR44 00						0	0	HR	15		M			
50	0-27	mcl	10YR43 00						0	0	HR	5					
	27-50	mc1	10YR44 54						0	0	HR	5		М			
	50-70	scl	10YR54 00						0	0	HR	10		М			
51	0-25	mcl	10YR43 00						0	0	HR	5					
	25–40	mcl	10YR44 00						0	0	HR	10		М			
_	40-55	mcl	10YR44 54						0	0	HR	10		М			
52	0-22	mcl	10YR43 00						0	0	HR	7					
•	22-30	wcj	10YR44 00						0	0	HR	12		М			
53	0-24	mcl	10YR43 00								HR	5					
	24-33	mc]	10YR44 54	10YR46	56 F				0	0	HR	10		М			
54	0-30	wel	10YR43 00						0		HR	5					
	30-35	mcl	10YR53 00	10YR56	00 F				0	0	HK	10		М			
55	0-33	mcl	10YR43 00						2	0	HR	7					
	33-50	mc1	10YR44 ⁻ 54						0		HR	10		М			
56	0-30	mc1	10YR43 00						0	0		0					
	30-60	mc1	10YR56 00						0	0	HR	8		М			
57	0-25	mc1	10YR43 00						0	0	HR	3					
	25-40	mc1	10YR44 00						0		HR	10		M			
	40-65	mc1	10YR58 00						0	0	HR	10		М			
58	0-30	mc1	10YR42 00						0		HR	5					
	30-40	mcl	10YR66 00						0 :		HR	10		М			
59	0-30	mc1	10YR43 00								HR	5					

				 MOTTLES	·	PED		-S1	ONES-		STRUCT/	SUBS			
SAMPLE	DEPTH	TEXTURE	COLOUR	ABUN							CONSIST		IMP S	PL C	ALC
60	0-25	mcl	10YR43 00				0	0	HR	3					
	25-50	mcl	10YR44 00				0	0	HR	5		М			
	50-70	hc1	10YR54 00				0	0	HR	5		M			
	70-100	hcl	10YR54 00				0	0	HR	10		M			
61	0-33	mcl	10YR43 00				0	0	HR	5					
	33-55	mcl	10YR44 00				0	0	HR	10		M			
	55-75	scl	10YR54 00				0	0	ЯR	10		М			
	75–80	scl	10YR54 00				0	0	HR	20		М			
62	0-30	mcl	10YR43 00				0	0	HR	5					
	30-40	mc1	10YR44 00				Q	0	HR	10		M			
	40-65	mc1	75YR44 00				0	0	HR	2		M			
63	0-32	mc1	10YR43 00				0	0	HR	3					
	32-45	mc1	10YR44 00				0	0	HR	10		М			
	45-85	mcl	10YR44 54				0	0	HR	5		М			
	85-90	scl	10YR54 00				0	0	HR	20		M			
64	0-30	mc1	10YR43 00				0	0	HR	10					
	30-35	mcl ·	10YR54 44				0	0	HR	15		M			
65	0-30	mcl	10YR43 00				0	0	HR	7					
	30-55	mcl	10YR46 00				0	0	HR	10		м			
	55-85	scl	10YR46 00				0		HR	15		м			
	85-110	scl	10YR54 00				0		HR	15		М			
	110-120	gh	00ZZ00 00				0	0		. 0		Р			
66	0-27	mcl	10YR43 00				0	0	HR	5					
	27-57	mc1	10YR44 54				0		HR	10		M			
67	0-30	scl	10YR43 00				0	0	HR	10					
	30-40	mcl	10YR44 00				0		HR	15		М			
														٠	
68	0-23	mcl	10YR43 00				0		HR	5					
	23-29	mcl	10YR54 00				0	0	HR	15		М			
69	0-25	scl	10YR43 00				0	0	HR	5					
	25-26	scl	00ZZ00 00				0	0	HR	5		М			
70	0-40	mcl	10YR42 00				0	0		0					
71	0-25	mc1	10YR42 00				0	0		0					
	25-50	mcl	10YR54 00				0	0	HR	5		М			
72	0-30	mcl	10YR43 00				0	0	HR	· 5					
73	0-33	mc1	10YR43 00				0	0	HR	5					
	33-53	mc1	10YR44 54				0		HR	5		м			
	53-57	mcl	10YR44 54				0		HR	15		М			

51

}					MOTTLES	 PED			-STC	NFS-	S	RUCT/	SHRS					
SAMPLE	DEPTH	TEXTURE	COLOUR		ABUN		GLEY					NSIST		20R]	MP S	PL (CALC	;
74	0-29	mcl	10YR43 00					0	0 F	iR	7							
	29-50	mc1	10YR44 00			•		0	0 ,	İŖ∴ :	5.		М					
	50-65	scl	10YR44 46		,			0	0 F	iR	7	11.02	М	÷ ,	2	•		
h.	65-75	msl	10YR46 00					0	0 H	łR	5. 3	953	М.	17	~ .			
	75-90	msl	10YR46 00		2 6 g			0	0 F	łR	15 👭	170	M	,				
•	90-120	gh	00ZZ00 00		H			0	0		غر ٥۔ چ	S.C. To City	Ρ		ζ,			
75	0-28	mcl	10YR43 00 ³	;				0	0 F	-IR .	, 5				٠,			
,,,	28-33	mcl	10YR44 00		•				0 1		15		M		A A			
76	0-30	${\sf mcl}^{3}$	10YR43 00	· .	- 6			o_	0 H	НR	5	•	िया		7-13	0(01	
77	0-25	mcl	10YR43 00		·			0	0 H	НR	10	•	•		al	1	r	
					,						, .			. •		• •	•	
78	0-32	mcl	10YR44 00		_			0	0 1	HR.	5		1	40	J			
	32-55	mcl	75YR44 00		÷ .			0	0 H	НR	5		M					
P	55-60	mcl	10YR46 00					0	0 1	ŀR ·	20 -		M	ř., 1 ·	.*	•		
79	0-30	mcl	10YR43 00					0	0 }	⊣R	10							
	30-45	mcl	10YR44 00					0	0 1	HR	10		М					
1	45-70	mc1	10YR54 00					0	0 !		10		М					
80	0-30	mc1	10YR42 00					4	0		8							
1	30-55	hcl	10YR43 00					0	0 1	HR	8		М					
	55-60	hc1	10YR46 00					0	0 1	HR	30		M					
	60-120	gh .	00ZZ00 00					0	0		0		P					
81	0-32	mcl	10YR42 00					4	0 1	HR	10							
	32-60	mcl	10YR43 00					0	0 1	HR	10		М					
	60-70	hc]	10YR46 00					0	0 1	HR	30		М					
	70–120	gh	00ZZ00 00					0	0		0		Р					
82	0-32	mcl	10YR43 00					0	0 1	HR	8							
	32-60	mcl	10YR44 00			•			0 1		5		М					
83	0-33	mcl	10YR42 00					0	0 1	HR	5							
_	33-65	hc1	10YR44 00					. 0	0 !	HR	5		М					
	65-70	hc1	10YR44 46					0	0 1	HR	30		М					
	70-120	gh	00ZZ00 00					0	0		0		P					
84	0-33	mc1	10YR43 00					0	0 1		10							
	33-40	mcl	10YR43 44					0	0		10		M					
	40-65	mcl	10YR44 00					G	8	HR	5		М					•
85	0-30	mcl	10YR43 00					0	0	HR	10							
86	0-30	scl	10YR43 00					3	0	HR	12							
	30-40	mcl	10YR44 00					0	0	HŔ	15		M					

					MOTTLES		PED			-STO	NES	STRUCT/	SUBS		
SAMPLE	DEPTH	TEXTURE	COLOUR	COL	ABUN	CONT	COL.	GLEY	>2	>6 L	TOT HTI	CONSIST	STR POR	IMP SPL	CALC
87	0~28	scl	10YR43 00						0	0 н	R 10				
0,	28-52	scl	10YR44 00							0 H			м		
			, , , , , , , , , , , , , , , , , , , ,						Ū	U 11	. 13		"		
88	0-32	mcl	10YR42 00						3	0 н	R 8				
	32-50	hc1	10YR43 00						0	0 н	R 20		М		
	50-65	С	10YR53 00	75YR6	B 00 C	1	0YR62	V 00	0	O H	R 20		M		
	65-120	gh	00ZZ00 00					Υ	0	0	0		P		
91	0-33	mcl	10YR43 00						2	0 н	R 8				
	33-40	mc1	10YR44 00							0 H			М		
	40-50	mc1	10YR44 00							0 H			M		
	50-120	gh	00ZZ00 00			ķ			0		0		P		
92	0-26	mcl	10YR43 00						0	0 н	R 10				
	26-50	mc1	10YR44 00							0 H			М		
									_	• • • • • • • • • • • • • • • • • • • •					
93	0-27	mcl	10YR43 00						0	0 н	R 10				
	27-32	mcl	10YR44 00						0	0 H	R 25		М		
94	0-28	mcl	10YR43 00						3	0 H	R 13				
	28-30	scl	10YR44 00						0	0 H	R 40		М		
95	0-33	hc1	10YR42 00						А	0 H	R 8				
33	33-50	hal	10YR43 00							0 H			м		
	50-60	scl	10YR64 66	75YR58	3 00 C			Υ		0 H			M		
	60-120	c	10YR63 64				0YR71			0 H			P	Υ	
													·	·	
99	0-30	mcl	10YR43 00						2	0 H	R 7				
	30-60	hcl	10YR44 00						0	O H	₹ 5		M		
	60-70	С	75YR56 58							0 H			М		
	70-120	gh	00ZZ00 00						0	0	0		Р		
100	0-27	mc1	10YR43 00						2	0 HF	R 10				
	27-40	mcl	10YR44 00						0	O HE	₹ 10		M		
101	0-26	mc1	10YR43 00						0	O HE	R 10				
	26-35	mcl	10YR44 00						0	O HE			М		
	35~40	mcl	10YR44 00						0	0 HF			М		
102	0-35	mcl	10YR43 00						6	0 HF	₹ 12				
									-			•			
103	0-33	mcl	10YR43 00						3	O HE					
	33-55	hcl	10YR43 00						0	O HE			M		
	55-80	hc1	10YR44 46						0	O HE	₹ 5		М		
104	0-32	mcl	10YR43 00						3	0 HF	12	÷			
	32-42	mcl	10YR44 00						0	O HE			М	•	

					MOTTLES	S	PED		-STONE	S ST	RUCT/	SUBS			
SAMPLE	DEPTH	TEXTURE	COLOUR	COL	ABUN	CONT	COL.	GLEY >2	>6 LIT	н тот со	NSIST	STR POR	IMP SI	PL CALO	С
105	0-28	scl	10YR42 43					8	Q HR	15					
	28-32	mcl	10YR44 00					0	O HR	25		М			
106	0-32	scl	10YR42 43					12	0 HR	20					
	32-40	mcl	10YR44 00					0	0 HR	30		М			
	40-120	gh	00ZZ00 00					0	0	0		Р			
107	0-32	mcl	10YR43 00					6	O HR	11					
	32-45	mc1	10YR44 00					0	0 HR	15		М			
	45-50	mc1	10YR44 00					0	0 HR	20		М			

program: ALCO12

LIST OF BORINGS HEADERS 12/08/93 FORDINGBRIDGE, HANTS

page 1

ASPECT --WETNESS-- -WHEAT- -POTS-M. REL EROSN FROST CHEM GRID REF USE GRONT GLEY SPL CLASS GRADE AP MB AP MB FLOOD **EXP** DIST LIMIT COMMENTS DRT 1 SU13401330 PGR 2 98 -9 99 0 3A 3A IMP GH 78 1P DR 1P SU13361285 PGR E וס ٦ 2 -43 66 -33 38 3B PIT FACE GH 55 DR 2 SU13401320 PGR 1 2 81 -26 85 -14 ЗB DR 3B IMP ST 60 6P 2P SU13351245 PGR 1 2 100 -7 112 3A PIT 75 GH 75 13 34 DR 3 SU13401310 PGR 2 86 -21 92 3B IMP ST 62 6P 1 -7 38 DR 3P SU12881241 PGR 033 053 3В -1 1045 WE 3B PIT 85 SPL 53 4 SU13501310 PGR E 3B IMP GH 25 6P 02 2 O DR 1 0 4P SU13651205 PGR 1 2 -8 102 DR 3A PIT 62 GH 70 5 SU13401300 PGR E 2 0 0 DR 3B IMP ST 30 6P 01 1 5P SU13751232 PGR 2 -28 78 3B PIT 65 GH 58 1 79 -21 3B DR 3B IMP ST 40 6P 6 SU13501230 PGR E 2 n 0 Λ1 1 DR 6P SU13491299 PGR 01 1 2 0 0 DR 3B PIT 65 IMP ST 3A IMP ST 100 7 SU12901290 PGR 2 34 138 31 117 24 WE 1 PIT 57 GH 29 2 -50 54 4 7P SU13251170 CFR 57 -45 DR 1 0 060 8 SU13001290 PGR -3 ЗА 120 13 113 20 WE 3A SPL 60 3P 8P SU13171201 CER 2 -14 94 3A PIT 80 GH 76 1 -5 3A DR 2 3B IMP ST 40 6P 9 SU13401290 PGR E 01 1 0 0 DR 2 31 120 WORKABILITY 12 SU13101280 PGR 1 27 1 WK 13 SU13201280 PGR 2 92 3A IMP ST 60 2P 1 -15 96 3 3A DR 14 SU13301280 PGR 3B IMP ST 50 1P 2 81 -26 81 -12 3B DR 3B SPL 40 3P 16 SU12901270 PGR 025 040 38 15 108 WE 4 122 9 2 3A IMP ST 50 2P 17 SU13001270 PGR 030 2 **3**A n 0 WE 2 104 -3 111 3A IMP ST 70 2P 18 SU13101270 PGR 1 18 3A DR 19 SU13201270 PGR 2 94 -13 101 DR 3A IMP ST 65 2P 1 Я 34 3B IMP ST 40 1P 20 SU13301270 PGR 2 -40 67 DR 67 -26 ٦F: 21 SU12901260 PGR 0 065 3 ЗА 130 23 115 WE 3A SPL 65 3P 16 2 22 SU13001260 PGR 0 040 **3B** 7 102 WE. 3B SPL 40 3P 4 114 3 2 23 SU13101260 PGR 2 95 -12 102 3A IMP ST 65 2P 1 3 3A DR 3A IMP ST 80 2P 24 SU13201260 PGR 2 1 110 3 110 11 3A DR 25 SU13301260 PGR 2 98 -9 107 DR IMP ST 70 2P 26 SU12801250 PGR 0 032 3B 127 20 104 5 2 WE 3B SPL 32 3P 022 065 38 3B WCIV. V.WET 27 SU12901250 PGR 123 16 105 6 2 045 055 33 108 WE 3Δ SPL 55 3P 28 SU13001250 PGR 3 34 140 9 2 2 IMP ST 82 2P 065 2 WD 29 SU13101250 PGR 1 114 7 113 14 2 30 SU13201250 PGR 2 64 -43 64 -35 3B DR 3B IMP ST 40 2P WD 2 IMP ST 95 2P 31 SU13301250 PGR 1 2 11 109 10 2 3A IMP ST 45 5P 0 32 SU13401250 PGR E 01 1 2 0 DR 33 SU13501250 PGR E 2 0 0 DR 3B IMP ST 30 2P 01 34 SU12801240 PGR 028 075 2 **3**A 133 26 106 7 2 WE ЗА SPL 75 3P 35 SU12901240 PGR 030 065 **3A** 131 24 109 10 2 WE 3A SPL 65 3P 36 SU13001240 PGR 8 2 3A SPL 75 3P 055 075 2 34 138 31 107 WF -37 70 -29 3B 37 SU13101240 PGR 1 2 70 DR 3B IMP ST 45 5P

SAMF	LE	A	SPECT				~~WETI	NESS	-WH	FAT-	-PC	TS-	М.	REL	EROSN	FROST	CHEM	ALC				
NO.	GRID REF			GRDNT	GLEY	SPL		GRADE		MB		MB	DRT	FLOOD	EX				COP	MEN	πs	
																						_
38	SU13201240	PGR					1	2	73	-34	73	-26	3B				DR	38	IMP	ŞΤ	50	2P
39	SU13301240	PGR					1	2	75	-32	75	-24	3B				DR	3B	IMP	ST	50	2P 🚾
40	SU13401240	PGR	Ε	01			1	2	91	-16	95	-4	ЗА				DR		IMP			
41	SU13501240	PGR	Ε	01			1	2		0		0					DR		IMP			
42	SU13601240	PGR	N	01			1	2		0		0					DR	3B	IMP	ST	32	5P
								_														
43	SU13701240						1	2	59	-48		-40	3B				DR		IMP			
44	SU13801240						1	2	75	-32		-24	3B				DR		IMP			58
45	SU12901230				045 0		3	3A	131		107	8	2				WE		SPL			
46 47	SU13001230				045 0	JOU	3	3A	135 97	-10	113	14 4					WE DR		SPL IMP			20
47	SU13101230	Pak					1	2	97	-10	103	4	SA				UK	3A	ILL	31	QΟ	24
48	SU13201230	PGR					1	2	72	-35	72	-27	3B				DR	3B	IMP	ST	45	2P
49	SU13301230						1	2	64	-43		-35	3B				DR	3B	IMP			
50	SU13401230						1	2	99		109	10	3A				DR	3A	IMP			
51	SU13501230						1	2	84	-23		-13	3B				DR		IMP			
52							1	2		0		0					DR		IMP			
53	SU13701230	PGR					1	2		0		0					DR	38	IMP	ST	33	5P 🖷
54	SU13801230	PGR					1	2	59	-48	59	-40	3B				DR	38	IMP	ST	35	5P
55	SU13901230	PGR					1	2	80	-27	80	-19	3B				DR	38	IMP	ST	50	5P
56	SU12901220	PGR					1	2	93	-14	98	5	3A				DR	ЗА	IMP	ST	60	8P 🖷
57	SU13001220	PGR					1	2	94	-13	102	9	ЗА				DR -	ЗА	IMP	ST	65	8P
58	SU13101220						1	2	66	-41	66	-27	3B				DR		IMP.			
59	SU13201220						1	2		0		0					DR		IMP			
60							1	2	128		112	19	2				MD	2	IMP			
61	SU13401220						1	2	108		109	10	3A				DR		IMP			
62	SU13501220	PGR					1	2	96	-11	105	6	ЗА				DR	ЗА	IMP	ST	65	4P —
63	CU12601220	D/D					1	2	120	12	113	14	2				nn.	2	TMD	CU	00	4D (
64	SU13601220 SU13701220						1	2	120	0	113	0	2				DR DR	2 3B	IMP			
	SU13801220						1	2	132		106	7	2				WD	2	IMP			
	SU13901220						i	2	86	-21		-9	3B				DR	_	IMP			
	SU14001220						1	2	60	-47		-39	3B				DR		IMP			
Ψ,	J						-	_			- +							- -		٠.	. •	
68	SU12901210	PGR					1	2		0		0					DR	3B	IMP	ST	29	5P 🚤
69	SU13001210						1	2		0		0					DR	3B	IMP			
70	SU13101210						1	2	72	-35	72	-21	3B				DR	38	IMP			
71	SU13201210	PGR					1	2	83	-24	83	-10	3B				DR	38	IMP	ST	50	5P _
72	SU13301210	PGR					1	2		0		0					DR	38	IMP	ST	30	5P
73							1	2	89	-18		-6					DR ·		IMP			
74	SU13501210						1	2	122		109	10	2				WD	2	IMP			
75	SU13601210						1	2		0		0					DR		IMP			
76	SU13701210						1	2		0		0					DR		IMP			
77	SU13801210	PGK					1	2		0		0					DR	3A	IMP	21	25	4P
70	0112001010	D¢ P					1	2	01	. 16	oc.	2	34				no.	24	TMD	ÇТ	En	AD
78 79	SU13901210 SU14001210						1 1	2 2	91 96	-16 -11		-3 8	3A				DR DR		IMP IMP			
13	3017001210	FUR					•	۷.	30	-11	107	0	JA				UK	J M	AFIP	CIIT	,,	<u> </u>

ASPECT --WETNESS-- -WHEAT- -POTS-M. REL EROSN FROST CHEM ALC GRID REF USE GRDNT GLEY SPL CLASS GRADE AP MB AP MB DRT FLOOD EXP DIST LIMIT COMMENTS SU13001200 CER 2 94 -13 95 3A IMP GH 60 8P -4 ЗА DR 81 \$U13101200 CER -8 104 1 2 99 3A IMP GH 70 8P 5 **3A** DR 82 SU13201200 CER 1 2 96 -11 98 DR 3A . IMP ST 60 8P 83 \$U13301200 CER 1 2 105 -2 111 3A IMP ST 70 8P 12 3A DR 84 SU13401200 PGR 2 1 93 -14 102 3A IMP ST 65 8P 3 DR 85 SU13501200 PGR 1 2 0 3A IMP ST 30 4P DR n 86 \$U13601200 PGR 1 2 0 0 DR 3A · IMP ST 40 4P 87 SU13701200 PGR 1 2 73 -34 74 3B IMP ST 52 4P -25 3B DR 88 SU13001190 CER 050 1 2 92 -15 97 -2 3A DR 3A IMP GH 65 8P 91 SU13341190 CER 2 -22 82 1 85 -17 3B DR 3B IMP GH 50 8P -33 74 1 3B IMP ST 50 4P 92 \$U13501190 PGR 2 74 -25 DR 3B 93 SU13601190 PGR 1 2 0 0 DR 3B IMP ST 32 7P 94 \$U13701190 PGR 1 2 0 0 DR IMP ST 30 7P 95 SU13001180 CER 050 060 3 3B 132 25 108 9 2 WE 38 SPL 60 3P 12 3A 99 SU13401180 CER 2 103 -4 111 3A IMP GH 70 8P 1 DR 100 SU13501180 PGR 1 2 63 -44 63 -36 3B IMP GH 40 7P DR 3B 2 -48 59 101 SU13601180 PGR 59 -40 3B IMP GH 40 7P 7 DR 3B 102 SU13001170 CER 1 2 0 0 DR IMP ST 35 8P 2 2 111 ho3 *S*U13101170 CER 1 109 12 3A DR ЗА IMP ST 80 8P 104 SU13201170 CER 2 -42 65 1 -34 DR 3B IMP GH 42 7P 105 SU13301170 CER 2 0 0 IMP GH 32 7P 1 DR 3B 106 SU13401170 CER 2 -45 59 DR 38 IMP GH 40 7P 1 62 -40 3B 107 SU13101160 CER 2 -24 80 | -19 3B DR 38 IMP GH 50 7P

Site Name : FORDINGBRIDGE, HANTS Pit Number : 1P

Grid Reference: SU13361285 Average Annual Rainfall: 0 mm

Accumulated Temperature: 0 degree days

Field Capacity Level : 0 days
Land Use : Permanent Grass
Slope and Aspect : 01 degrees E

STONES >2 TOT.STONE MOTTLES STRUCTURE HORIZON TEXTURE COLOUR 0- 24 SCL 10YR43 00 30 24~ 55 **WKCOAB** SCL 10YR44 00 0 30 55-120 GH 00ZZ00 60 0 0

Wetness Grade: 2 Wetness Class: I

Gleying : cm SPL : No SPL

Drought Grade: 3B APW: 64 mm MBW: -43 mm

APP: 66 mm MBP: -33 mm

FINAL ALC GRADE : 3B

MAIN LIMITATION : Droughtiness

SOIL PIT DESCRIPTION

Site Name : FORDINGBRIDGE, HANTS Pit Number : 2P

Grid Reference: SU13351245 Average Annual Rainfall: 0 mm

Accumulated Temperature: 0 degree days

Field Capacity Level : 0 days

Land Use : Permanent Grass
Slope and Aspect : degrees

HORIZON TEXTURE COLOUR STONES >2 TOT. STONE MOTTLES STRUCTURE **WCSAB** 0- 28 MCL 10YR43 00 2 6 MCSAB 28- 35 MCL 10YR53 00 0 8 35- 70 75YR66 53 **MCSAB** С 0 4 70- 75 С 75YR66 53 0 30 75-120 00ZZ00 00 0 GH 0

Wetness Grade : 2 Wetness Class : I

Gleying : cm SPL : No SPL

FINAL ALC GRADE : 3A

MAIN LIMITATION: Droughtiness

Site Name: FORDINGBRIDGE, HANTS Pit Number : 3P

0 mm Grid Reference: SU12881241 Average Annual Rainfall:

> O degree days Accumulated Temperature:

Field Capacity Level : 0 days

Land Use : Permanent Grass

Slope and Aspect degrees :

HORIZON TEXTURE COLOUR STONES >2 TOT.STONE MOTTLES STRUCTURE 0- 33 SCL 10YR43 00 0 3 **WCSAB** 33- 53 SCL 10YR74 53 0 3 C MCSAB 10YR64 52 8 . C 53- 85 SC 0 **WCSAB**

Wetness Class Wetness Grade: 38 : IV

> Gleying :033 cm :053 cm

APW: 106mm MBW: Drought Grade: 3A -1 mm

> APP: 104mm MBP: 5 mm

FINAL ALC GRADE : 3B MAIN LIMITATION : Wetness

SOIL PIT DESCRIPTION

Site Name : FORDINGBRIDGE, HANTS Pit Number :

Grid Reference: SU13651205 Average Annual Rainfall: 0 mm

> Accumulated Temperature: O degree days

Field Capacity Level : 0 days Land Use : Permanent Grass

\$1ope and Aspect degrees :

HORIZON TEXTURE COLOUR STONES >2 TOT.STONE MOTTLES STRUCTURE 0- 26 MCL 10YR43 00 2 18 25- 45 MCL 10YR44 00 8 0 45- 62 SCL 75YR56 00 0 15 62- 70 С 05YR56 58 0 26 70-120 GH 00ZZ00 00 0 0

Wetness Grade: 2 Wetness Class : I

> Gleying : CITI SPL : No SPL

Prought Grade: 3A APW : 99 mm MBW : -8 mm

APP: 102mm MBP: 3 mm

FINAL ALC GRADE : 3A

MAIN LIMITATION: Droughtiness

Site Name : FORDINGBRIDGE, HANTS Pit Number : 5P

Grid Reference: SU13751232 Average Annual Rainfall: 0 mm

Accumulated Temperature: 0 degree days

Field Capacity Level : 0 days

Land Use : Permanent Grass
Slope and Aspect : degrees

HORIZON TEXTURE COLOUR STONES >2 TOT.STONE MOTTLES STRUCTURE 0- 28 MCL 10YR43 00 2 9 **WDCSAB** 28- 41 10YR44 00 MCL 0 33 41- 58 MCL 10YR46 CO 0 43 58-120 75YR46 00 0 GH

Wetness Grade: 2 Wetness Class: I

Gleying : cm SPL : No SPL

Drought Grade: 3B APW: 79 mm MBW: -28 mm

APP: 78 mm MBP: -21 mm

FINAL ALC GRADE : 38

MAIN LIMITATION: Droughtiness

SOIL PIT DESCRIPTION

Grid Reference: SU13491299 Average Annual Rainfall: 0 mm

Accumulated Temperature: 0 degree days

Field Capacity Level : 0 days

Land Use : Permanent Grass
Slope and Aspect : 01 degrees E

STONES >2 TOT.STONE MOTTLES STRUCTURE HORIZON TEXTURE COLOUR 0- 25 SCL 10YR43 00 8 48 25- 40 10YR44 00 SCL 0 50 40- 65 10YR46 00 0 50 MSL

Wetness Grade: 2 Wetness Class: I

Gleying : cm SPL : No SPL

Drought Grade: APW: mm MBW: 0 mm APP: mm MBP: 0 mm

FINAL ALC GRADE : 3B

MAIN LIMITATION: Droughtiness

Site Name : FORDINGBRIDGE, HANTS Pit Number : 7P

Grid Reference: SU13251170 Average Annual Rainfall: 0 mm

Accumulated Temperature: 0 degree days

Field Capacity Level : 0 days
Land Use : Cereals
Slope and Aspect : degrees

HORIZON TEXTURE COLOUR STONES >2 TOT.STONE MOTTLES STRUCTURE

0- 29 MCL 10YR42 00 3 13 29-120 GH 10YR43 00 0 0

Wetness Grade: 2 Wetness Class: I

Gleying : cm SPL : No SPL

Drought Grade: 4 APW: 57 mm MBW: -50 mm

APP: 54 mm MBP: -45 mm

FINAL ALC GRADE : 4

MAIN LIMITATION: Droughtiness

SOIL PIT DESCRIPTION

Site Name : FORDINGBRIDGE, HANTS Pit Number : 8P

Grid Reference: SU13171201 Average Annual Rainfall: 0 mm

Accumulated Temperature: 0 degree days

Field Capacity Level : 0 days
Land Use : Cereals
Slope and Aspect : degrees

HORIZON	TEXTURE	COLOUR	STONES >2	TOT.STONE	MOTTLES	STRUCTURE
0- 25	MCL	10YR43 00	3	` 6		WKMSAB
25- 52	HCL	10YR44 00	0	20		MDCOAB
52- 62	HCL	10YR44 46	0	30		
62- 76	С	75YR56 00	0	65		
76-120	GH	00ZZ00 00	0	0		

Wetness Grade : 2 Wetness Class : I

Gleying : cm SPL : No SPL

Drought Grade: 3A APW: 92 mm MBW: -14 mm

APP: 94 mm MBP: -5 mm

FINAL ALC GRADE : 3A

MAIN LIMITATION : Droughtiness