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Test Valley Local Plan Review
Site 101 Velmore Farm Chandlers Ford
Hampshire
Agricultural Land Classification
ALC Map and Report

April 1997

Resource Planning Team Eastern Region FRCA Reading RPT Job Number 1512/180/96 FRCA Reference EL 15/00292 LURET Job Number 02467

AGRICULTURAL LAND CLASSIFICATION REPORT

TEST VALLEY BOROUGH LOCAL PLAN REVIEW SITE 101 VELMORE FARM CHANDLERS FORD HAMPSHIRE

INTRODUCTION

- Thus report presents the findings of a detailed Agricultural Land Classification (ALC) survey of 62 3 hectares of land located to the south west of Chandlers Ford in Hampshire The field survey work was carried out during June 1991 as part of an earlier incomplete survey. The site has been included in the proposals for this review
- The survey was commissioned by the Ministry of Agriculture Fishenes and Food (MAFF) from its Land Use Planning Unit in Reading in connection with the Test Valley Borough Local Plan Review The results of this survey supersede any previous ALC information for this land
- Prior to 1 April 1997 the work was conducted by members of the Resource Planning Team in the Guildford Statutory Group of ADAS After this date the work was completed by the same team as part of the Farming and Rural Conservation Agency (FRCA, Reading) 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
- At the time of survey the majority of the agricultural land at this site was in grass either permanent grazing or a ley for silage cutting. In addition, some areas were being cropped for maize. The areas mapped as Other land, include the farm buildings at Velmore Farm and an electrical switching station to the north of the 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
- The area and proportions of the ALC grades and subgrades on the surveyed land are summarised in Table 1 overleaf
- The fieldwork was conducted at an average density of 1 boring per hectare A total of 63 borings and four soil pits were described
- The agricultural land on this site has been classified as Subgrade 3a (good quality) Subgrade 3b (moderate quality) and Grade 4 (poor quality) Limitations to land quality include soil wetness soil droughtiness and gradient
- Good quality land has been mapped to the east and west of the site. The principal limitations are soil wetness and soil droughtiness. Two soil types were observed. The majority of this area is limited by soil wetness and the soils comprise stoneless light to medium loamy topsoils and upper subsoils overlying clay at moderate depths. Soil wetness restricts

land utilisation by reducing the number of days when trafficking by machinery or grazing by animals may occur without damaging the soil. The remaining soils either comprise light or medium loams to depth or contain a significant stone content such that they are limited in the local climate to Subgrade 3a on the basis of soil droughtiness. Soil droughtiness affects plant growth and yield especially in drier years.

- Most of the remaining agricultural land is mapped as Subgrade 3b due principally to a soil wetness limitation. Soils comprise medium loams over clays at moderate depths. At this site the clayey subsoils restrict drainage to the extent that in the prevailing local climate Subgrade 3b is appropriate. Subgrade 3b has also been mapped where gradients were measured between 7 and 11°. This causes a restriction in potential land utilisation as some farm machinery cannot be efficiently or safely operated on such gradients.
- Towards the centre of the site there are two small areas where gradients in excess of 11° were measured Slopes of this nature seriously hamper the safe and efficient use of farm machinery such that Grade 4 is appropriate

Grade/Other land / surveyed area Area (hectares) / site area 47.5 3a 296 48 8 50 0 3b 30.3 48 6 0.7 12 11 Other Land 17 28 Total surveyed area 606 973 100 0 Total site area 62 3 1000

Table 1 Area of grades and other land

FACTORS INFLUENCING ALC GRADE

Climate

- 12 Climate affects the grading of land through the assessment of an overall climatic limitation and also through interactions with soil characteristics
- The key climatic variables used for grading this site are given in Table 2 overleaf these were obtained from the published 5km grid datasets using standard interpolation procedures (Met Office 1989)
- 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

Table 2 Climatic and altitude data

Factor	Units	Values	
Grid reference	N/A	SU 421 195	SU 414 189
Altıtude	m, AOD	35	60
Accumulated Temperature	day°C	1514	1486
Average Annual Rainfall	mm	813	818
Field Capacity Days	days	172	172
Moisture Deficit, Wheat	mm	108	105
Moisture Deficit, Potatoes	mm	102	99

- 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 (ATO January to June) as a measure of the relative warmth of a locality
- The combination of rainfall and temperature at this site mean that there is no overall climatic limitation. Local climatic factors such as exposure and frost risk, are not believed to significantly affect this area. The site is climatically Grade 1

Site

The site lies at altitudes in the range 30 60m AOD the highest land being towards the south and south west. The area comprises a series of small hills and valleys which fall overall from the south towards the north. Within the site some of the valley sides are of sufficient gradient to adversely affect agricultural land quality.

Geology and soils

- The published geological information for the site (BGS 1987) shows the site to be underlain by the Wittering formation (laminated clays and sands) and Earnley Sand (fine grained silty and clayey sand) Both deposits form part of the Bracklesham Beds series of deposits. The Earnley Sand occurs on the higher parts of the site with the Wittering formation on the lowest lying land.
- The most detailed published soils information for the site (SSEW 1983 and 1984) shows the site to comprise soils of the Wickham 3 association. These are described as Slowly permeable seasonally waterlogged fine loamy over clayey and coarse loamy over clayey soils and similar more permeable soils with slight waterlogging. Some deep coarse loamy soils affected by groundwater. Landslips with irregular terrain locally. (SSEW 1983) Soils of the types described above were found at this site.

Agricultural Land Classification

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

Subgrade 3a

- Land of good quality has been mapped in three separate mapping units to the east west and south west of the site. The principal limitation is soil wetness
- Soils in this area are of a single type which can be quite variable overall. They are characterised by the pit observations 2P 3P and 4P. The topsoils commonly comprise either fine sandy silt loam fine or medium sandy loam, or occasionally loamy fine sand. The majority of the observations were stoneless in the topsoil but occasionally up to 12% total v/v flints with up to 7% >2cm were recorded The upper subsoil horizon(s) was either similar to the topsoil or comprised the slightly heavier textures of medium clay loam, sandy clay loam, occasionally medium sandy loam containing up to 5% v/v total flints The lower subsoil horizons were sandy clay loam, heavy clay loam clay or sandy clay textures and often banded They were commonly stoneless moderately or poorly structured. The majority were slowly permeable Occasionally as in the pit observation, 3P the slowly permeable horizon gave way to a fine sandy loam horizon to depth. In these cases the clayey horizon was of sufficient thickness to be slowly permeable. In the local climate, these soils are appropriately placed in Wetness Classes III and IV (see Appendix II) on the basis of the depth to gleying and slowly permeable horizon(s) The light nature and good workability of the topsoil means that these soils are placed in Subgrade 3a and Grade 2 on the basis of a soil wetness limitation. The Grade 2 observations were scattered within the Subgrade 3a units and could not be mapped separately
- Soil wetness restricts land utilisation by reducing the number of days when the soil is in a suitable condition for cultivation trafficking by machinery or grazing by livestock as well as adversely affecting crop growth and development
- Occasional observations in this Subgrade at this site were limited by soil droughtiness Essentially the profiles were similar to those describe above (para 22) except that the upper subsoil comprises a loamy fine sand which lies over sandy clay or clay. The poor water retention of this soil texture leads to this area being appropriately placed in Subgrade 3a on the basis of soil droughtiness. Soil droughtiness can affect plant growth, development and yield especially in drier years.

Subgrade 3b

- Land of moderate quality has been mapped in total of two units and is concentrated towards the centre of the site. Soils are characterised by the soil pit. 1P. The principal limitations are soil wetness and gradient.
- Soils in this area commonly comprise a stoneless to slightly stony medium clay loam, medium silty clay loam or sandy clay loam topsoils which were occasionally gleyed. These typically overlie a gleyed sandy clay loam or heavy clay loam which passes to clay or sandy clay. The shallow depth to gleying and clayey slowly permeable horizons lead to Wetness Class IV (see Appendix II) being appropriate which, with the medium textured topsoil leads to Subgrade 3b being applied in this area, due to moderate wetness limitations
- Towards the centre of the site there are some areas where slope is the principal limitation to land quality. In these areas gradients were measured to be in excess of 7°. This

causes a restriction in potential land utilisation as some farm machinery cannot be efficiently or safely operated on such gradients

Grade 4

Towards the centre of the site there are two small areas where gradients in excess of 11° were measured Slopes of this nature seriously hamper the safe and efficient use of farm machinery such that Grade 4 is appropriate

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SOURCES OF REFERENCE

British Geological Survey (1987) Sheet 315 Southampton Solid and Drift Edition 1 50 000 Scale
BGS 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

Meteorological Office (1989) Climatological Data for Agricultural Land Classification Met Office Bracknell

Soil Survey of England and Wales (1983) Soils of South East England. 1 250 000 Scale SSEW Harpenden

Soil Survey of England and Wales (1984) Soils of South East England. Bulletin No 15 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 WETNESS CLASSIFICATION

Definitions of Soil Wetness Classes

Soil wetness is classified according to the depth and duration of waterlogging in the soil profile. Six soil wetness classes are identified and are defined in the table below

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
П	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 90 days but only wet within 40 cm depth for 30 days in most years
Ш	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
ΙV	The soil profile is wet within 70 cm depth for more than 180 days but not wet within 40 cm depth for 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
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

Assessment of Wetness Class

Soils have been allocated to wetness classes by the interpretation of soil profile characteristics and climatic factors using the methodology described in Agricultural Land Classification of England and Wales Revised guidelines and criteria for grading the quality of agricultural land (MAFF 1988)

¹ The number of days is not necessarily a continuous period

² In most years is defined as more than 10 out of 20 years

APPENDIX III

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 Pasture	LEY	Ley Grass	RGR	Rough Grazing
SCR	Scrub	CFW	Consferous Woodland	DCW	Deciduous Wood
HTH	Heathland	BOG	Bog or Marsh	FLW	Fallow
PLO	Ploughed	SAS	Set aside	ОТН	Other
HRT	Horticultural Crops				

- 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	ΑE	Aspect	EX	Exposure
FR	Frost Risk	GR	Gradient	MR	Microrelief
FL	Flood Risk	TX	Topsoil Texture	DP	Soil Depth
CH	Chemical	WE	Wetness	WK	Workability
DR	Drought	ER	Erosion Risk	wn	Soil Wetness/Drought

DR Drought ER Erosion Risk WD Soil wetness/Droughtiness

ST Topsoil Stoniness

Soil Pits and Auger Borings

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

S	Sand	LS	Loamy Sand	SL	Sandy Loam
SZL	Sandy Silt Loam	CL	Clay Loam	ZCL	Silty Clay Loam
ZL	Sılt 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 the following prefixes

- 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
 - 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	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	GS	gravel with porous (soft) stones
SI	soft weathered igneous/metamorphic	rock	
Stone co	ntents (>2cm >6cm and total) are given	en in perc	entages (by volume)

brone contents (* 2011 * com and total) are given in percentages (b) vertaine)

8 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 sizeF fineM mediumC coarseVC very coarseped shapeS single grainM massive

GR granular
AB angular blocky
SAB sub angular blocky
PR prismatic

PL platy

9 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

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

SOIL PIT DESCRIPTION

Site Name VELMORE FARM HANTS Pit Numbe 1P

G id R f rence SU42001960 Ave age Annual Rainfall 815 mm

Accumulated Temperature 1497 degree days

Field Capacity Level 172 days Land Use Ley

Slope and Aspect 1 degrees N

HORIZON	TEXTURE	COLOUR	STONES	2	TOT STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0- 25	MCL.	10YR32 00	0		0						
25- 38	SCL	05GY51 00	0		0		С	MDMAB	FR	M	
38- 65	SC	05G 42 51	0		0		M	MDCAB	FM	Р	
65-120	sc	05G 41 00	0		0		M			Ρ	

 Wetness Grade
 38
 Wetness Class
 IV

 Gleying
 25 cm

 SPL
 38 cm

Drought G ade 2 APW 147mm MBW 41 mm APP 107mm MBP 7 mm

FINAL ALC GRADE 3B MAIN LIMITATION Hetnes

SOIL PIT DESCRIPTION

Site Name VELMORE FARM HANTS Pit Numbe 2P

G id R ference SU41601950 Ave age A nu 1 Rai f 11 815 mm

Accumulated Tempe ature 1497 degree days

Field Capacity Level 172 days

Land Use Permane t G as

Slope and Aspect 1 degrees E

HORIZON	TEXTURE	COLOUR	STONES	2	TOT STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0- 26	FSZL	10YR32 00	0		0						
26 35	MCL	10YR42 54	0		0		С	MDMSB	FM	M	
35- 47	HCL	10YR63 00	0		0		М	MDCAB	FM	М	
47 60	MCL	10YR53 00	0		C		M	MOCAB	FM	М	
60- 75	SC	0\$Y 54 00	0		0		н	MDMAB	FH	Р	
75-120	C	25Y 44 00	٥		0		М	MDMPR	FM	Р	

Wetness G ade 3A Wetness C1 s IV
Gleying 26 cm
SPL 35 cm

Drought G ade 1 APW 149mm MBW 43 mm
APP 125mm MBP 25 mm

FINAL ALC GRADE 3A
MAIN LIMITATION Hetness

SOIL PIT DESCRIPTION

Site Name VELMORE FARM HANTS Pit Numbe 3P

G 1d Reference SU41901940 Average Annual Rai fall 815 mm

Accumul ted Temperature 1497 degree days

Field Capacity Level 172 days Land Use Mai e

Slope and Aspect 2 degrees NW

HORIZON	TEXTURE	COLOUR	STONES	2	TOT STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0- 25	LFS	10YR42 00	7		12	HR					
25- 36	SCL	25Y 44 00	0		5	HR		STMSAB	FR	G	
36 53	LFS	25Y 56 00	0		0		F	STCSAB	FR	G	
53- 70	SC	05Y 73 00	0		0		С	MDCAB	FR	M	
70 –105	FSL	05Y 73 00	0		2	HR	C			M	
105-120	FSL	05Y 73 00	0		5	HR	С			M	

Wetness Grade 2 Hetness Class III
Gleying 53 cm
SPL 53 cm

Drought Grade 1 APW 165mm MBW 59 mm APP 111mm MBP 11 mm

FINAL ALC GRADE 2 MAIN LIMITATION Wetness

SOIL PIT DESCRIPTION

Site Name VELMORE FARM HANTS Pit Numbe 4P

Grid Reference SU41701930 Ave age Annual R i f 11 815 mm

Accumulated Tempe ture 1497 degree days

Field Capacity Level 172 days
Land Use Ley

Slope and Aspect 4 degrees W

HORIZON	TEXTURE	COLOUR	STONES	2	TOT STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0 28	FSZL	10YR42 00	0		0						
28- 55	MCL	10YR52 00	0		0		С	MDCSAB	FR	M	
55-120	C	10YR62 00	0		0		M	MDCAB	FM	P	

 Wetness Grade
 2
 Wetness Class
 III

 Gleying
 28 cm

 SPL
 55 cm

 Drought G ade
 1
 APW
 147mm
 MBW
 41 mm

APP 124mm MBP 24 mm

FINAL ALC GRADE 2 MAIN LIMITATION Wetnes

SAMP	LE	A	SPECT				WET	NESS	-WHE	ΑT	PO	TS	м	I REL	EROSN	FROST	CHEM	ALC	
NO	GRID REF			GRONT	GLEY	SPL	CLASS		AP	МВ	AP	мв	DRT	FLOOD	EX		LIMIT		COMMENTS
1	SU41501960	LEY	N	1	0	35	4	3A	111	5	114	14	2				WE	3 A	
18	SU42001960	LEY	N	1	25	38	4	3B	147	41	107	7	2				WE	38	PIT65 AUG120
2	SU41601960	LEY	N	1	23	23	4	3A	158	52	126	26	1				WE	3 A	
2P	SU41601950	PGR	E	1	26	35	4	3A	149	43	125	25					WE	3A	PIT 85
3	SU41701960	LEY	N	1	26	26	4	38	120	14	110	10	2				WE	38	
				_													_	_	
	SU41901940		NH 	2	53	53	3	2	165		111		1				WE	2	PIT70 AUG120
4	SU41801960		NE	1	45	45	3	3A	132		108	8	2				WE	3A	
_	SU41701930	_	W	4	28	55	3	2	147		124		1				WE	20	PIT 70
5 ■ 6	SU41901960		NE	1	31	31	4	3B	130		107 99	7					WE WE	3B 3B	SEE 10
	SU42001960	LET	N	1	25	38	4	38	105	'	33	1	3A				WE	30	SEE 1P
,	SU41501950	LEV	N	1	28	36	4	3A	130	24	104	A	2				WE	3A	
_ 8	SU41601950		E	i	26	35	4	3A	149		124	_	1				WE	3A	SEE 2P
9	SU41701950		E	1	20	45	4	3A	150		120		1				WE	3A	OCC C
10	SU41801950		E	1	25	40	4	3A	140		115		1				WE	3A	
11	SU41901950		N	1	30	45	4	3A	145		120		1				WE	3A	
R		Ÿ																	
12	SU42001950	MZE	N	1	30	50	3	2	159	53	128	28	1				WE	2	
13	SU42101950	MZE	NE	1	28	28	4	3B	136	30	112	12	1				WE	38	SMALL PIT
14	SU42201950	PGR	N	1	70	70	2	1	143	37	113	13	1					1	
15	SU41601940	LEY	Ε	3	23	28	4	3A	134	28	113	13	2				WE	ЗА	
16	SU41701940	LEY	Ε	3	27	32	4	3A	137	31	114	14	1				WE	3A	SL GLAUCONITIC
_																			
17	SU41801940	LEY			21	21	4	3B	121	15	102	2	2				WE		WET FROM 60cm
18	SU41901940		NW	2	53	53	3	2	172		118		1		Y		WE	2	SEE 3P
19	SU42001940		N	3	21	21	4	3B	130		100	0	2				WE	38	
20	SU42101940		N	2	25	25	4	3A	119		106	6	2				WE	3A	00070110
21	SU42201940	PGK	N	1	38	38	4	3A	130	24	101	1	2				Y WE	3A	PODZOLIC
_ 22	SU42301940	ı EV	u	4	45	60	3	2	108	2	79	21	3A				DR	3 A	
23	SU41601930		~	7	28	28	4	3B	126		103	3	2				WE	3B	
24	SU41701930		W	4	28	55	3	2	147		124	24	1				WE		SEE 4P
_	SU41801930			6		28	4		128		105	5					WE		V WET TOPSOIL
	SU41901930			6	30		4	3B	133		106	6					WE		SLOPE 6 5 DEGS
				-					-			-					-		
27	SU42001930	MZE	EN	6	28	28	4	3B	124	18	101	1	2				WE	38	
28	SU42101930	MZE	Ε	6	30		4		130		106	6	2				WE	3B	
29	SU42201930	PGR	NH	7	23		1	1	46	60	46	54	4				DR	4	PROB 38 DR
30	SU42301930	LEY	SE	1	26	50	3	2	149	43	109	9	2				MD	2	PODZOLIC
31	SU42401930	LEY	SE	2	25	25	4	3 A	145	39	110	10	1				WE	3A	
20																			
32	SU41601920			2	18				123	17		0					WE	3B	
_	SU41701920			1	29				144		119	19						1	
	SU41801920			1	26		4		132		108	8					WE	38	
	SU41901920			6	25		4		152		124	24					WE	3A	
36	SU42001920	PGR	Ł	1	25	25	4	38	124	18	101	1	2				WE	3B	
I	01140101000	~	ka.i	11	22	22		20	125	10	107	2	,				C1	4	SLOPE 11 5 DEG
_	SU42101920			11	33 25				125		102 og	2					SL We	4 3A	SLUFE II 3 DEG
35	SU42201920	ruk	JE	4	25	J	4	3 A	128	22	2 0	2	C				ME	J4	

SAMP	LE	A:	SPECT				WETN	NESS	WHE	AT	PO	TS		M REL	EROSA	N FR	OST	CHEM	ALC	
NO	GRID REF	USE		GRDNT	GLEY	SPL	CLASS	GRADE	AP	MB	AP	MB	DRT	r FLOOD		EXP	DIST	LIMIT		COMMENTS
20	01140001000	1 554			20	24		24	126	20		16	•					1 +1**	24	1
39	SU42301920		_	1	20	34	4	3A	136		115	15						ME	3A	
40	SU42401920			1	24	83	2	1	149		110	10							1	
41	SU42501920		_	2	22	22	4	38	132		102	2						WE	38	
42	SU41501910			2	40	40	3	2	154		131	31						WE	2	
43	SU41601910	PGR	E	2	23	38	4	3A	139	33	125	25	1					ME	3A	
44	SU41801900	PGR	Ε	1	22	38	4	3B	117	11	102	2	2					WE	38	
45	SU41801910	PGR	W	5	23	23	4	3B	123	17	100	0	2					WE	3B	
46	SU41901910	PGR	W	11	24	24	4	3B	125	19	102	2	2					SL	4	SLOPE 11 5 DEG
47	SU42001910	PGR	Ε	3	27	27	4	3B	122	16	97	3	2					WE	38	
48	SU42101910	PGR	S	5	42	55	3	3A	135	29	110	10	2					WE	3 A	1
49	SU42201910	PGR	S	1	28	37	4	3B	139	33	115	15	1					WE	3B	
50	SU42301910	PGR	S	1	37	37	4	3B	137	31	107	7	2					WE	3B	,
51	SU42401910	PGR			35	35	4	3A	147	41	117	17	1					WE	ЗА	
52	SU42501910	PGR	S	1	45	55	3	3A	149	43	123	23	1					WE	3 A	ı
53	SU41501900	PGR	Ε	3	38	62	3	2	137	31	108	8	2					WD	2	
																				•
54	SU41601900	PGR	Ε	1	21	32	4	3B	128	22	105	5	2					WE	38	
55	SU41701900	PGR	N	1	20	20	4	3A	114	8	96	-4	2					WE	3 A	
56	SU41701910	PGR	Ε	1	0	40	4	3B	130	24	103	3	2					WE	3B	
57	SU41901900	PGR	W	1	24	24	4	3B	34	72	34	66	4					DR	4	PROB DR 3B
58	SU42001900	PGR	S	6	24	24	4	3B	124	18	101	1	2					WE	3B	
60	SU42201900	PGR			12		4	3B	104		88	12	ЗА	Y				WE	3B	WET/MICRO
61	SU42301900	PGR	N	1	28	28	4	3A	137	31	109	9	2					WE	ЗА	
62	SU42401900	PGR	N	1	38	38	4	3 A	126	20	114	14	2					WE	3A	GLAUCONITIC
63	SU41501890	PGR			18	40	4	3A	129	23	99	1	2					WE	3A	
64	SU41401890	PGR	SE	3	24	24	4	38	134	28	104	4	2					WE	38	

					_	MOTTLE:	S	PED			S	TONES	-	STRUCT	۲/	SUB	S			
3 5	SAMPLE	DEPTH	TEXTURE	COLOUR		ABUN		T COL	GLEY	2	6	LITH	TOT	CONSIS	ST	STR	POR	IMP SPL	CALC	
	1	0 35	fszl	10YR41 0	0 75YR5	8 00 C	F		Y	1	0	HR	3							
		35-40	scl	25Y 63 0	0 10YR5	8 00 C	D		Y	0	0	HR	20			M				
_		40 63	C	25Y 63 0	0 10YR5	8 00 M	D		Y	0	0	HR	10			P		Y		
_		63-85	¢	25Y 63 0	0 75YR5	8 00 M	Р	25Y 46	00 Y	0	0	HR	40			Р		Υ		IMP STONES 85cm
			_		_															
_	1P	0 25	uc)	10YR32 0						0	0		0							
_		25-38	scl	05GY51 0					Y	0	0		0	MDMAB			Y			
		38-65	sc -	05G 42 5					Y		0		0	MDCAB	FM		Y	Y		TENDING PRISMATIC
		65-120	SC	05G 41 0	U /51K5	8 44 M			Y	Q	0		0			Р	Y	Y		
	2	0 23	fszl	10YR42 0	^				N	^	^		_							POCC 1401 7-70
	č	23-80	r C	05GY51 6		6 00 M			N Y		0		0					v		POSS MCL T/S
		80 120		05Y 54 4					Y	0	_		0			M M		Y		
		50 120	5 C	031 34 4	2 10173	0 00 0	U		7	v	u		U			М		T		
	2P	0 26	fszl	10YR32 0	0					n	0		0							
	٠,	26 35	mc1	10YR42 5		6 58 C			Y	0			0	MDMSB	FM	м				
_		35-47	hc1	10YR63 0					Ÿ		0		_	MDCAB	FM			Υ		
_		47 60	mcl	10YR53 0					Y		0		0	MDCAB	FM		Y	Ý		
1		60 75	sc	05Y 54 0					Ý	0	0		0	MDMA8	FM		Y	Ÿ		
		75-120		25Y 44 0					Ÿ	a	0		0	MDMPR			Ÿ	Ý		
_			-						•	•	-		-			•		•		
	3	0 26	mc1	10YR42 0	0				N	0	0		0							
		26 43	hcl	25Y 63 0	0 10YRS	B 00 M	D		Y	O	o		0			М		Υ		
		43 50	С	25Y 63 0	0 10YR5	B 00 M	D		Υ	0	0		0			M		Υ		
		50 60	С	25Y 63 0	0 10YR5	B 00 M	D		Y	0	0	HR	10			P		Υ		
		60 75	С	25Y 63 0	0 10YR5	M 00° 8	D		Y	0	0		0			Р		γ		
		75-105	С	25Y 63 0	0 75YR5	8 00 M	D		Y	0	0	HR	15			Ρ		Υ		IMP STONES 105cm
	3P	0 25	1fs	10YR42 0	0					7	0	HR	12							
_		25-36	sc1	25Y 44 0	D					0	0	HR	5	STMSAB	FR	G				
_		36 53	1fs	25Y 56 0						0	0			STCSAB						
		53 70	sc	05Y 73 0					Y	0	0		0	MDCAB	FR	M	Y	Y		
			f]	05Y 73 0					Y	0		HR	2			М		Y		
_	•	105 120	fsl	05Y 73 0	0 25Y 5	5 84 C			Y	0	0	HR	5			М		Υ		
			-1	10/040 0	10005		_			_	_		_							
	4	0 23	mcl 1	10YR42 3					N	0	0		0							
		23-45	mcl	10YR58 0					N	0			0			M -				
		45-55 EE 120	hcl	10YR63 00					Y	0			0			P		Y		
		55 120	C	231 02 0	, /STK30	5 UU M	U		Y	0	U		0			P		Y		
	4P	0 28	fs 1	10YR42 00)					0	n		0							
	71	28-55	mc1	10YR52 00		00.0			γ	0				MDCSAB	50	м				
		55-120		10YR62 00					Y	0				MDCAB			v	Υ		
_		33-120		TOTALE OF	, 101K3	, 00 11			ı	v	٠		Ü	PIDCAD	FM	-	7	•		
	5	0 31	mel	10YR43 00	3				N	0	0		0							
		31 120		10YR61 00		3 00 M	Đ		Υ Υ	0			0			Р		Y		STONY/WET 68cm+
-						- **			•	-	-		-			•		•		a. ovvey man admin.
_	6	0 25	mc1	10YR32 00)				N	0	0		0							
		25 38	sc1	05GY51 00	10YR58	00 C	D		Y	0			0	Md MAB	Fr	М				
		38 65	sc	05G 42 51	10YR56	00 M	P		Y	0	0			Md CAB				Υ		TENDING PRISMATIC
		65 120	s¢	05G 41 00					Y	0	0		0			Р		Y		

	-MOTTLES					PED STONES					NES STRUCT/ SUBS						
SAMPLE	DEPTH	TEXTURE	COLOUR					GLEY	2			CONSIST			MP S	PL CALC	
									_								
7	0 28	ms 1	10YR32 00					N	0	0	0						
	28-36	msl	10YR42 00		F	F		Y	0	0	0		М				
	36 55	scl	25Y 63 00	10YR58	3 00 C	D		Y	0	0	0		Ρ			Y	
	55-90	С	25Y 63 00	10YR68	3 00 C	D		Y	0	0	0		Ρ			Υ	SANDY LAYERS
	90 120	scl	25Y 63 00	10YR58	3 00 C	Đ		Y	0	0	0		Ρ			Y	
8	0 26	fsz1	10YR32 00					N	0	0	0						
	26 35	mcl	10YR54 56	75YR58	3 00 C	D	10YR42	00 Y	0	0	0	Md MS8 F	m M				
	35-47	hc1	10YR63 00	25YR58	3 00 M	Р		Y	0	O HR	1	Md CA8 F	m M			Υ	
	47 60	mcl	10YR53 00	75YR58	3 00 M	D		Y	0	0	0	Md CAB F	m M			Y	
	60 75	sc	05Y 54 00	25YR56	3 00 M	Р		Y	0	0	0	Md MAB F	m P			Υ	
	75-120	c	25Y 44 00	05Y 68	3 00 M	Р		Y	O	0	0	Md MPR F	mΡ			Y	
9	0 20	f z1	10YR42 00					N	0	0	0						
	20 26	fszl	10YR54 00						0	0	0		М				
	26 35	mcl	10YR54 00				10YR53		0	0	0		M				
	35-45	wcj	10YR54 00				10YR53	62 Y	0	_	0		М				
	45-70	scl	05GY61 00					Y	0	0	0		Р			Y	
	70 120	sc	05G 62 00	10YR58	3 00 C	Đ		Y	0	0	0		Р			Y	
		_							_	_	_						
10	0 25	fs 1	10YR42 00			_		N	0		0						
	25-40	mcl	10YR54 00				10YR53		0		0		M				
	40 65	hc1	10YR63 00					Y	0	-	0		P			Y	
	65-120	hcl	25Y 72 00	107858	3 UU M	Р		Y	0	U	0		Ρ			Y	
11	0 30	fs 1	10YR43 00					N	0	^	0						
• • • • • • • • • • • • • • • • • • • •	30 45	mcl	107R54 00	100056	5 50 F	c	10YR53		0		0		м				
	45-60	hcl	10YR54 00				10YR53		0		0		P			Υ	
	60 100	hcl	10YR54 00				10YR63		0	-	0		Р			Y	
	100 120	-	10YR54 00				10YR63		0		0		P			· Y	
	.00 ,20		1011107 00	101115					•	·	Ť		•			•	
12	0 30	f 1	10YR32 00					N	0	0	0						
-	30 50	fsl	10YR44 00	10YR63	3 00 F	F		Υ	0		0		G				
	50 75	scl	05G 52 00	10YR68	3 00 F	F		Y	0	0	0		М			Υ	
	75-120	sc	05G 52 00					Υ	0	0	0		Ρ			Y	
13	0 28	mcl	10YR32 00					N	0	0	0						
	28 65	hc1	05GY51 00	10YR58	3 00 M	Р		Y	0	0	0		Р				
	65 87	hcl	05GY51 00	10YR58	3 00 M	Р		Y	0	O HR	5		P			Y	
	87 100	hc1	05GY51 00	10YR58	3 00 M	Р		Y	0	0	0		Р			Υ	
	100 120	c	05GY51 00	10YR58	3 00 M	Р		Y	0	0	0		Р			Y	
14	0 28	f 1	10YR31 00					N	0	0	0						
	28 70	scl	10YR46 00					N	0	0	0		M				
	70 120	scl	10YR58 00	05GY51	00 C	F		Y	0	0	0		P			Υ	
15	0 23	fszl	10YR41 00					N	0	0	0						
	23-28	scl	10YR62 00					Y	0	0	0		М				
	28 60	sc	10YR62 00					Y	0	0	0		P			Y	
	60 68	scl	10YR72 00				05YR46		0	_	0		P			Υ	
	68-85	SÇ	10YR72 00					Y	0	0	0		P			Υ	
	85-90	C	10YR72 00					Y	0	0	0		P			Υ	
	90 110	c1	10YR72 00	05YR46	00 M	P		Y	0	0	0		P			Y	

110 120 1ms 10YR72 00 05YR46 00 M P Y 0 0 P

				_	OTTLES	-	PED			STONES	3	STRUCT/	SUBS		
SAMPL	E DEPTH	TEXTURE	COLOUR	COL	ABUN	CONT	COL	GLEY	2	6 LITH	1 TOT	CONSIST	STR POR	IMP SPL CALC	
m 16	0 27	fszl	10YR42 00					N	0	O HR	5				
	27 32	scl	05Y 73 00		5 00 C	D	10YR68			O HR	5		М		+ GREEN MOTTLES
•	32 36	c	10YR81 00	10YR76	64 C	D	75YR44	00 Y	0	O HR	10		М	Y	
_	36-45	scl	10YR81 00	10YR76	64 C	D	75YR64	00 Y	0	O HR	10		М	Y	
	45-98	С	10YR71 00	75YR68	3 00 C	D		Y	0	0	0		P	Y	
	98-105	scl	10YR71 00	75YR68	3 00 C	D		Y	0	O HR	5		Р	Y	
	105-120	С	10YR71 00	75YR68	3 00 C	D		Y	0	O HR	5		Р	Y	
1		_	100/041 00	35VD 4 4		_								81	
1 7		നേടി	10YR41 00					N	0	-	0			N	HATED TADLE AT CO.
	21 90	C	10YR61 00					Y	0	_	0		P P	Y	WATER TABLE AT 60cm
1	90 120	С	10YR61 00	/51K56	3 00 C	ט		Y	Ų	O HR	20		P	Y	
18	0 25	1fs	10YR42 00					N	7	O HR	12				
_	25~36	scl	25Y 44 00					N	0	O HR	5	St MSB F	r G		
•	36 53	1fs	25Y 56 00	25Y 66	00 F	F		N	0	0	0	St CAB F	r G		SLIGHTLY GLEYED
	53 70	sc	05Y 73 00	25Y 56	84 C	D		Y	0	0	0	Md CAB F	r G	Y	
	70 105	f 1	05Y 73 00	25Y 56	84 C	D		Y	0	0 HR	2		М		
	105-120	fsl	05Y 73 00	25Y 56	84 C	D		Y	0	O HR	5		М		
19	0 21	mc]	10YR32 00					N	٥	O HR	3				
_ '	21 95	SC	05Y 44 00	10YR46	5 00 C	D	05Y 72		0	-	0		Р	Y	GLAUCONITIC?
\$	95~120		05Y 44 00				05Y 72		0	-	0		P	Y	
	35 (60	501			•			•••	•	•	•				
20	0 25	f z1	10YR33 00					N	0	0 HR	2				
	25 50	hc1	05Y 63 00	10YR68	3 00 C	D		Y	0	0	0		Р	Y	
	50 60	С	05Y 63 00	10YR68	3 00 C	D		Y	0	0	0		₽	Y	WATER TABLE AT 70cm
	60 80	С	05Y 63 00	10YR68	3 00 C	D		Y	0	O HR	30		P	Y	IMP STONES 80cm
21	0.10	£-1	10YR31 00					N	0	0	0				ORGANIC ?
- 21	0 19 19 30	fs1 1fs	75YR62 00	10VP56	: nn =			N	0		0		G		OKGANIC /
	30 38	irs if	10YR31 00					N	0	-	0		G		IRON PAN FORMING
	38 80	hel	10YR51 00					Y	o	_	0		P	Y	21011 1711 1 014 12110
	80 120	scl	10YR51 00					Ÿ	0		0		Р	Y	
	50 120	301	1011101 00	1011100				•	Ť	•	Ť		·	·	
22		ms 1	10YR32 00					N	0	0	0				
	25–45	lms	10YR53 42					N		0 HR	10		М		
	45-60	lms	25YR64 00					Y		O HR	5		М		
	60 80	c	05Y 54 00					Y	0		0		P	Y	
	80 120	С	05G 51 00	75YR58	3 00 M	D		Y	0	0	0		Р	Y	
23	0 28	mcl	10YR42 00					N	0	0	0				
	28 45	hc1	10YR72 00	10YR58	3 00 C	D		Y	0	0	0		Р	Y	
	45 120		10YR72 00	10YR58	3 00 M	D		Y	0	0	0		P	Y	
			100040-00						^	•	_				PSD- TEX NR FSZL
24	=	f z1	10YR42 00	100050	. 00 0	0		N	0		0	Md CSB F	м		FOUT IEA HK FOLL
	28 55	mc]	10YR52 00 10YR62 00					Y	0			Md CAB Fr		Y	
_	55-120	С	IUTROZ UU	TUTKOO	, UU M	U		7	U	U	U	ING CAD FE	u F	,	

SAMPLE DEPTH TEXTURE COLOUR COL ABUN CONT COL GLEY 2 6 LITH TOT CONSIST STR POR IMP SPL CALC 25 0 28 mc1 10VR31 00 75VR66 00 F D						_MC	TTLES		PED				STONES	_	STRUCT/	SUBS			
25 0 28 mcl 107832 00 757856 00 F D	SAMPLE	DEPTH	TEXTURE	COL OUR						CI F	v :	,					MP SPL CALC		
28 120 C 10VRS1 00 75VRS8 00 M D V 0 0 0 0 P Y 28 0 30 hc1 10VR31 32 N 0 0 0 0 P Y 29 0 28 sc1 10VR31 00 0 0 05VRS8 60 M P V 0 0 0 NR 3 P Y 27 0 28 sc1 10VR31 00 0 0 0 0 P Y 28 0 30 sc1 10VR31 00 0 0 0 0 P Y 28 0 30 sc1 10VR31 00 0 N 0 0 0 0 P Y 28 0 30 sc1 10VR31 00 N 0 0 0 0 P Y 28 0 30 sc1 10VR31 00 N 0 0 0 0 P Y 29 0 30 sc1 10VR31 00 N 0 0 0 N 0 0 0 P Y 29 0 23 fall 10VR31 00 N P Y 0 0 NR 3 N 0 0 0 P Y 29 0 23 fall 10VR31 00 N P Y 0 0 N N 0 0 0 P Y 29 0 23 fall 10VR31 00 N P Y 0 0 N N 11 0 NR 21 29 0 23 fall 10VR31 00 N P Y 0 0 N N 11 0 NR 21 29 0 23 fall 10VR31 00 N P Y 0 0 N N 11 0 NR 21 29 0 23 fall 10VR31 00 N P Y 0 0 N N 11 0 NR 21 29 0 23 fall 10VR31 00 N P N 0 0 N N 11 0 NR 21 29 0 23 fall 10VR31 00 N P N 0 0 N N 11 0 NR 21 29 0 23 fall 10VR31 00 N P N 11 0 NR 21 29 0 23 fall 10VR32 00 N P N 0 0 N N 0 0 N N 0 0 N N 0 0 N P Y 30 0 0 P Y 31 0 25 fall 10VR32 00 N P N 0 0 N N N 0 0 N N 0 0 N N N 0 0 N N N 0 0 N N N 0 0 N N N 0 0 N N N 0 0 N N N 0 0 N N N 0 0 N N N 0 0 N N N 0 0 N N N 0 0 N N N 0 0 N N N N 0 0 N N N N 0 0 N N N N N 0 0 N N N N	ON IT EL	OLF III	ILATURE	OOLOOK		WL A		- CONT.		GLL		_	O CIIII		0010101	OIN TON 1	0. 2 0.20		
26 0 30 hc1 107431 32	25	0 28	mcl	10YR32 (00 7	75YR66	00 F	D		Y	, (0	0	0				POSS	ORGANIC
30 70		28 120	С	10YR51 (00 7	75YR58	М 00	D		Y	<i>r</i> (0	0	0		P	Y		
30 70																			
70 120 sc 056 42 00 10YR58 68 M P Y 0 0 0 HR 3 P Y 27 0 28 sc1 10YR31 00	26		hcl							N				0					
27 0 28 sc] 107831 00			C																
28 45 hc1 10YR54 00 10YR56 00 C 0 0 05GY51 00 Y 0 0 0 0 P Y 0 0 0 0 P Y 0 0 0 0 0		70 120	SC	05G 42 (00 1	IOYR58	68 M	Р		Y	′ (0	O HR	3		Р	Y		
28 45 hc1 10YR54 00 10YR56 00 C 0 0 05GY51 00 Y 0 0 0 0 P Y 0 0 0 0 P Y 0 0 0 0 0			_	*OV031 (_	•	_				D000	ODCANIC
45-120 c 10YR64 00 10YR68 00 M D 05GY51 00 Y 0 0 0 0 P Y 28 0 30 sc1 10YR31 00 N 0 0 0 0 M M Y 30-45 57 sc1 05Y 64 00 10YR68 00 C 0 N 0 0 0 M M Y 57 120 c 05Y 41 00 10YR58 00 M P Y 0 0 0 0 P Y 29 0 23 fs1 10YR31 00 N 11 10 0 HR 21 23-35 1f 10YR31 00 N 11 10 0 HR 21 20 26 1fs 10YR82 00 10YR68 00 C D 10YR72 00 Y 0 0 HR 30 M M IMP STONES 35cm 30 0 20 f 1 10YR31 00 N 0 0 HR 5 30 10 20 f 1 10YR31 00 N 0 0 HR 5 30 10 20 f 1 10YR32 00 N 0 0 HR 5 50 120 sc1 10YR83 00 10YR58 00 C D Y 0 0 0 M Y 40 50 c1 105Y 44 00 10YR56 00 C D 10YR42 00 Y 0 0 0 M Y 40 50 c1 105Y 44 00 10YR56 00 C D 10YR42 00 Y 0 0 0 M Y 40 50 c1 105Y 44 00 10YR56 00 C D 10YR42 00 Y 0 0 0 M Y 40 50 c1 105Y 44 00 10YR56 00 C D 10YR42 00 Y 0 0 0 M Y 31 0 25 fs1 10YR32 00 N 0 0 0 M Y 0 0 M Y 0 0 0 M M Y 0 0 0 M Y 0 0 0 M M Y 0 0 0 M M Y 0 0 0 0	21					OVDES	00.0		OFCVET							В	v	PUSS	UKGANIC
28 0 30 sc1 10YR31 00				•								_	-	_					
30-45 sc1 05Y 64 00 10YR69 00 C 0 Y 0 0 0 H Y 7 4557 sc1 05SY41 00 10YR59 00 M P Y 0 0 0 0 P Y 7 7 120 c 05SY41 00 10YR59 00 M P Y 0 0 0 0 P Y 7 120 c 05SY41 00 10YR59 00 M P Y 0 0 0 0 P Y 7 120 c 05SY41 00 10YR59 00 M P Y 0 0 0 0 P Y 1 0 0 0 P Y 1 0 0 0 P Y 1 0 0 0 0 P Y 1 0 0 10YR59 00 M P Y 0 0 0 0 P P Y 1 0 0 0 0 P P Y 1 0 0 0 0 P P Y 1 0 0 0 0 P P Y 1 0 0 0 0 P P Y 1 0 0 0 0 P P Y 1 0 0 0 0 P P Y 1 0 0 0 0 P P Y 1 0 0 0 0 P P Y 1 0 0 0 0 0 P P Y 1 0 0 0 0 0 P P Y 1 0 0 0 0 0 P P Y 1 0 0 0 0 P P Y 1 0 0 0 0 0 P P Y 1 0 0 0 0 P P Y 1 0 0 0 0 P P Y 1 0 0 0 0 P P Y 1 0 0 0 0 P P Y 1 0 0 0 0 P P Y 1 0 0 0 0 P P Y 1 0 0 0 0 P P Y 1 0 0 0 0 P P Y 1 0 0 0 0 P P Y 1 0 0 0 0 P P Y 1 0 0 0 0 P P Y 1 0 0 0 0 P P Y 1 0 0 0 0 P P Y 1 0 0 0 0 P P P P Y 1 0 0 0 0 P P P P Y 1 0 0 0 0 P P P P P P P P P P P P P P P		45-120	C	IOTRO-	,	IUTKOO	00 M	U	034131	00 1	,		U	U		•	•		
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				-M	OTTLES		PED			STONES	STRUCT/	SUBS	
SAMPLE	DEPTH	TEXTURE	COLOUR	COL .	ABUN	CONT	COL	GLEY	2	6 LITH TOT	CONSIST	STR POR IMP	SPL CALC
64	0 24	mc1	10YR54 00 1	10YR58	00 F	F		N	0	0 0			
	24 30	scl	10YR64 00 1	10YR68	00 C	D 4	05Y 63	00 Y	0	0 0		М	Υ
	30 120	scl	10YR66 00 1	10YR68	00 C	D	10YR72	00 Y	0	0 0		P	Y