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Wokingham District Local Plan
Sites SH11, SH13, SH14, SH15 and SH16 Shinfield, Berkshire
Agricultural Land Classification
Semi-detailed survey
February 1996

Resource Planning Team Guildford Statutory Group ADAS Reading

ADAS Reference: 0206/177/95 MAFF Reference: EL 02/01176 LUPU Commission: 02301

AGRICULTURAL LAND CLASSIFICATION REPORT

WOKINGHAM DISTRICT LOCAL PLAN SH11, SH13, SH14, SH15, SH16 - SHINFIELD, BERKSHIRE

Introduction

- 1. This report presents the findings of a semi-detailed Agricultural Land Classification (ALC) survey of 218.6 ha of land around Shinfield, to the west of Wokingham, Berkshire. The survey was carried out in February 1996.
- 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 Wokingham District Local Plan. All of this site was surveyed in 1976 in connection with the subdivision of Grade 3 land. However, the results of this, more recent, survey supersede any previous ALC information for this land. Land to the south of Aborfield Road and to the east of Hyde End Road was surveyed in 1993 as part of the Berkshire Minerals Plan. This survey was undertaken when the soil conditions were extremely dry. Consequently, not all of the soil profiles could be sampled to full auger depth (120 cm). As a result the recent survey work, carried out during wetter soil conditions, revealed some land quality variation within this area. Consequently, the 1995 survey supersedes the 1993 ALC information for this area.
- 3. The work was conducted by members of the Resource Planning Team in the Guildford Statutory Group of ADAS. 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 much of the agricultural land was in permanent grass. Most of the land to the south-west of Shinfield was in arable use. The areas shown as 'Other Land' include woodland, tracks and roads, open water, dwellings with gardens, farm and university research buildings plus associated land, and a recreation ground. The 'Not Surveyed' area to the south of Shinfield Grange was not entered due to ongoing work with trial plots.

Summary

- 5. The findings of the survey are shown on the enclosed ALC map. The map has been drawn at a scale of 1:15,000 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 overleaf.
- 7. The fieldwork was conducted at an average density of approximately 2 borings every 3 hectares of agricultural land surveyed. A total of 120 borings and 8 soil pits were described.

Table 1: Area of grades and other land

Grade/ Other land	Area (hectares)	% Total site area	% Agricultural Land
2	2.6	1.2	1.5
3a	84.7	38.7	47.9
3b	86.5	39.6	49.0
4	2.9	1.3	1.6
Other land	38.7	17.7	
Not Surveyed	3.2	1.5	
Total agricultural area	176.7		100.0
Total site area	218.6	100.0	

- 8. The majority of agricultural land surveyed has been classified as Subgrade 3a (good quality) and Subgrade 3b (moderate quality). A small area in the north of the site has been classified as Grade 2 (very good quality). A small area of land next to the Infant School has been classified as Grade 4 (poor quality).
- 9. The land classified as Grade 2 is limited by both soil wetness and droughtiness. Medium sandy loam topsoils overlie medium clay loam upper subsoils which become heavier and slowly permeable at moderate depths within the profile. These lower subsoils either extend to depth or overlie gravelly horizons deep within the soil profile. The drainage within these profiles is impeded; however, the sandy textured topsoils and the relatively dry prevailing climate means that there is only slight restrictions on the flexibility of cropping, stocking and cultivations. In addition, these soil characteristics at this locality act to impose a slight soil droughtiness limitation. This may lead to the soil available water being insufficient to fully meet crop needs. Consequently, this land will suffer from slightly lower and less consistent crop yields.
- 10. Most of the land classified as Subgrade 3a is limited by soil droughtiness, sometimes in conjunction with soil wetness. In comparison to land classified as Grade 2, the subsoils of these profiles tend to be sandier, stonier, and with gravelly horizons occurring at slightly shallower depths. There is thus less soil water available for uptake by crop roots. Parts of this land are also limited by soil wetness. Some of the profiles are similar to those in para. 9 but with medium textured topsoils. These slightly heavier topsoils thus increase the risk of workability problems. Some of the profiles still have sandy topsoils but, in comparison to Grade 2 land, overlie slowly permeable horizons at much shallower depths.
- 11. Land classified as Subgrade 3b is either limited by soil wetness or droughtiness. The former occurs to the west and south of Shinfield Grange, plus to the east of Tanner's Copse. These profiles typically comprise medium textured topsoils which directly overlie slowly permeable subsoils. This results in poor drainage conditions, as indicated by hydrophilic vegetation plus standing water across parts of these areas. The remaining land classified as Subgrade 3b is limited by significant soil droughtiness. Medium sandy loam topsoils overlie

gravelly and sandy textured horizons, often loamy sands and sands, at relatively shallow depths within the soil profile. This land will be subject to low and inconsistent crop yields.

12. Next to the Infant School, Grade 4 has been mapped on the basis of microrelief limitations. This area of the site is currently in a state whereby most mechanised operations are not feasible and as such it is only suited to permanent grazing.

Factors Influencing ALC Grade

Climate

- 13. Climate affects the grading of land through the assessment of an overall climatic limitation and also through interactions with soil characteristics.
- 14. 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	Values	Values	Values
Grid reference	N/A	SU735672	SU742694	SU724678	SU736688
Altitude	m, AOD	44	50	55	60
Accumulated Temperature	day°C	1475	1467	1462	1456
Average Annual Rainfall	mm	667	662	672	670
Field Capacity Days	days	138	138	139	139
Moisture Deficit, Wheat	mm	115	115	113	114
Moisture Deficit, Potatoes	mm	110	110	108	108

- 15. 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.
- 16. 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.
- 17. The combination of rainfall and accumulated temperature at this site mean that there is no overall climatic limitation. However, climatic factors do interact with soil properties to influence soil wetness and droughtiness limitations. The crop-adjusted soil moisture deficits at this locality are above the average for the south-east of England. This increases the likelihood of soil droughtiness limitations. No local climatic factors, such as exposure or frost risk, are believed to adversely affect the land quality on the site. This site is climatically Grade 1.

Site

18. The land on this site is either flat, or is very gently sloping. Where sloping the land generally falls through gradients of 1-3° and is of a southerly or south-easterly aspect. The land on this site lies at approximately 45 to 60 m AOD. Nowhere on the site does gradient affect agricultural land quality. However, a small area of land has been classified as Grade 4 on the basis of a microrelief limitation.

Geology and soils

- 19. The published geological information (BGS, 1971) shows the entire site to be underlain by a solid geology of London Clay. Drift deposits of alluvium flank the River Loddon, extending as far west as Parrot Farm and Shinfield Grange. An extensive area of land in the south of the site, from Parrot Farm to Ryeish Green is overlain by drift deposits of valley gravel. The latter also occur in the north-east of the site, to the south of Cutbush Lane. Two small areas of land, to the north-east of Ryeish Green and to the south of the reservoir, are mapped as plateau gravel.
- 20. The published soils information (SSEW, 1983) shows three soil types across the site. The majority of the site comprises soils of the Hurst Association. These soils, which are mapped over the gravel deposits, are described as 'coarse and fine loamy permeable soils mainly over gravel variably affected by groundwater.' (SSEW, 1983). The eastern boundary of the site is mapped as the Fladbury 3 Association. These soils, which are mapped in conjunction with the alluvial deposits, are described as 'stoneless clayey, fine silty, and fine loamy soils affected by groundwater. Flat land. Risk of flooding.' (SSEW, 1983). The northwest of the site is mapped as the Wickham 4 Association. These soils occur where there is an absence of drift over the London Clay. These soils are described as 'slowly permeable seasonally waterlogged fine loamy over clayey and fine silty over clayey soils associated with similar clayey soils, often with brown subsoils.' (SSEW, 1983).

Agricultural Land Classification

- 21. 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, page 2.
- 22. 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 III.

Grade 2

23. A small area of slightly higher land in the north of the site has been classified as Grade 2, very good quality. This land is subject to slight soil droughtiness and wetness limitations. Topsoils comprise non-calcareous medium sandy loams. These overlie permeable medium clay loam upper subsoils which are gleyed and moderately structured. At approximately 50 cm depth these pass into heavy clay loam and clay lower subsoils. These subsoils are poorly structured and slowly permeable. These profiles either become sandier at depth (sandy clay, sandy clay loam) or overlie gravelly deposits at approximately 95 cm depth. These profiles are virtually stoneless. Given the local climate, these profiles are assessed as imperfectly drained (Wetness Class III, see Appendix II). However, the sandy textured topsoils and the relatively

dry prevailing climate means that this land is limited by minor soil wetness and workability. This may result in slightly restricted flexibility of cropping, stocking and cultivations. In addition, the interaction between these soil characteristics (texture, stone content and subsoil structure) and the relatively dry prevailing climate slightly reduces the amount of profile available water for plants. This is likely to have the effect of restricting the level and consistency of crop yields due to minor soil droughtiness to the extent that Grade 2 is appropriate.

Subgrade 3a

- 24. Just under half of the agricultural land surveyed on this site has been classified as Subgrade 3a, good quality. Most of this land is limited by soil droughtiness with smaller areas limited by soil wetness. Across parts of the site these limitations occur in conjunction.
- 25. Where soil wetness is the principal limitation profiles are similar to those described in para. 23. However, the topsoils comprise medium clay loams rather than medium sandy loams. These slightly heavier topsoils thus increase the risk of workability problems and so this land is classified as Subgrade 3a. Occasionally, the slowly permeable subsoils occur at shallower depths within the soil profile, typically 35 cm depth. These profiles, which are represented by Pit 8, are poorly drained and are thus assigned to Wetness Class IV. However, these profiles have easily worked sandy textured topsoils (medium sandy loams) and are accordingly classified as Subgrade 3a.
- 26. Where soil droughtiness occurs in conjunction with soil wetness, profiles are similar to those described in para. 25 but have slightly less profile available water for plants. This results from profiles with either sandier upper subsoils (medium sandy loams), stonier subsoils (containing 20-25% total flints by volume) or profiles overlying gravelly lower subsoils at approximately 80-90 cm depth.
- Where soil droughtiness is the key limitation profiles either comprise relatively deep soils over gravelly deposits or deep sandy textured soils. Where the latter occurs, profiles typically comprise medium sandy loam topsoils over similarly textured or, occasionally, loamy medium sand upper subsoils. These pass to similarly textured or medium sand lower subsoils. As a result of fluctuating groundwater levels, profiles tend to be gleyed within 40 cm depth and so are assessed as moderately well drained (Wetness Class II). Topsoils tend to be slightly stony, containing 2-5% flints > 2 cm and 10-12% total flints by volume. Subsoils are similarly stony, though occasionally stonier (approximately 20% total flints by volume) at depth. The topsoils and upper subsoils of these profiles are similar to Pit 6, though the lower subsoils are less stony than those of Pit 6. All subsoils are moderately structured. The interaction of the soil characteristics with the local climatic regime acts to impart a moderate soil droughtiness limitation. This may result in the soil available water being insufficient to fully meet crop needs in some years. Consequently this land may suffer from reduced and less consistent crop yields.
- 28. Where soil profiles overlie gravelly deposits at depth topsoils comprise medium sandy loams. These overlie permeable similarly textured or sandy clay loam (tending medium sandy loam) upper subsoils. At approximately 45-70 cm depth some of these profiles pass into poorly structured and slowly permeable lower subsoils (sandy clay loams, heavy clay loams, clay). These profiles are imperfectly drained (Wetness Class III). In other profiles the lower

subsoils are also sandy textured and are moderately well drained (Wetness Class II). Topsoils tend to be slightly stony, containing 0-2% of flints > 2 cm and 5-10% total flints by volume. Subsoils tend to be either slightly or moderately stony, containing 5-30% total flints by volume. Occasionally lower subsoils are very stony, containing 40% total flints by volume. At approximately 60-95 cm depth these profiles proved impenetrable to a soil auger because of underlying gravelly deposits. Consequently, soil inspection pits were dug to assess the soil conditions of horizons below 60-95 cm depth. Pit 4 represents profiles where slowly permeable lower subsoils are present; Pit 6 typifies profiles which are sandy textured prior to proving impenetrable.

29. From Pit 6 it could be seen that the auger proved impenetrable because the underlying horizons are very stony. Lower subsoils were found to comprise medium sandy loams and medium sands which contain approximately 55% total flints by volume. The high stone content of these horizons meant that it was impossible to assess the ped size, shape and their degree of development. However, due to the friable consistence it has been assumed that these lower horizons are moderately structured. From Pit 4 it could be seen that the auger proved impenetrable because the underlying horizon comprised a slightly or moderately stony clay (containing 15% total flints by volume) of very firm consistence. The interaction between the soil characteristics (texture, stone contents, subsoil structures) of both Pits 4 and 6 with the relatively dry prevailing climate acts to impart a moderate soil droughtiness limitation. This may result in the soil available water being insufficient to fully meet crop needs in some years. Consequently this land may suffer from reduced and less consistent crop yields.

Subgrade 3b

- Land classified as Subgrade 3b, moderate quality, is subject to either significant soil 30. wetness or droughtiness limitations. The former occur to the west of Cutbush Lane (in the north of the site), around the Food Research Institute, across the lower-lying land to the south of Shinfield Grange, and to the south of Millworth Lane. Topsoils comprise medium clay loams and medium silty clay loams. These usually pass into slowly permeable heavier textured (heavy clay loam, clay) subsoils. Occasionally permeable medium clay loam or stony heavy clay loam upper subsoils occur. However, these pass into the slowly permeable lower subsoils at shallow depths (30-36 cm) within the soil profile. Profiles tend to be very slightly stony, containing 0-5% total flints by volume. These profiles, which are represented by Pit 5, are poorly drained. This drainage impedance is indicated by gleying within the subsoils, and often within the topsoils. Given the prevailing climate these profiles are assigned to Wetness Class IV. The interaction between the topsoil textures and drainage characteristics with the local climatic regime means that this land is most appropriately classified as Subgrade 3b. This land will be subject to significant restrictions on the flexibility of cropping, stocking and cultivations.
- 31. The remainder of the Subgrade 3b land is limited by soil droughtiness. In comparison to land classified as Subgrade as 3a, the profiles in this mapping unit are sandier or shallower over gravelly deposits. The majority of profiles have medium sandy loams topsoils, which are occasionally organic. These profiles pass into similarly textured or loamy medium sand subsoils. Topsoils typically contain 1-7% of flints larger than 2 cm and 8-15% of total flints by volume. Upper subsoils are moderately stony (20-35% total flints), though occasionally are very stony (40% total flints). At approximately 35-45 cm depth these pass into very stony (40-60% total flints) lower subsoils. Fluctuating groundwater levels means that these profiles

are well to moderately well drained (Wetness Classes I and II), depending upon the depth to gleying. These profiles proved impenetrable to a soil auger between 45 and 70 cm depth because of underlying gravelly deposits.

- 32. Other profiles in this mapping unit tend to have slightly heavier textured subsoils. Topsoils comprise sandy clay loams, medium clay loams and occasionally medium sandy loams. Subsoils comprise medium, heavy and sandy clay loams. The flint content of these profiles is similar to before. The slightly heavier subsoils means that these profiles are usually moderately well drained (Wetness Class II). However, profiles which have slowly permeable heavy clay loam, sandy clay loam or clay at depth are imperfectly drained (Wetness Class III). Profiles generally proved impenetrable to a soil auger at slightly shallower depths, typically 40 to 55 cm.
- 33. In order to assess the lower subsoil conditions of the profiles which proved impenetrable to a soil auger soil inspection pits 1, 2, 3 and 7 were dug. From Pit 2 it could be seen that lower subsoils comprise loamy medium sands. In this profile an iron pan occurred at 42 cm. Although this horizon is only slightly stony (10% total flints) its consolidated nature means that roots are unlikely to penetrate more than a few cm. The very firm consistence of this horizon means that a poor subsoil structure has been assumed.
- 34. Subsoils in the remaining pits were found to comprise loamy medium sandy, medium sand and, occasionally, medium sandy loams. Horizons were found to be moderately to very stony (31-65% total flints). In many cases the high stone contents meant that it was not possible to determine the size and shape of soil peds or their degree of development. However, given the friable and very friable consistence of these horizons moderate subsoil structures have been assumed. A comparison of the auger boring descriptions and the conditions observed in Pits 3 and 7 highlighted that subsoils were often both sandier and much stonier than originally envisaged in the auger borings. The fact that fieldwork was carried out when subsoils were moist, combined with the subsoils being of friable or very friable consistence, meant that it was often possible to auger through very stony subsoils(including that of 60% total flints). These factors have been considered in determining the extent and boundary of the Subgrade 3b mapping unit.
- 35. For all of the above pits the interaction of the soil properties, such as texture, stone content, subsoils structures (and restricted rooting in the case of Pit 2), and the prevailing climate results in the amount of soil available water being inadequate to meet crop requirements in most years. The resultant soil droughtiness limitation means that this land will suffer from lower and less consistent yield potential.

Grade 4

36. Grade 4, poor quality, land has been mapped in a single mapping unit to the north-west of Shinfield Infants School. The principal limitation to land quality in this area is microrelief and a lack of soil resource due to the fact that it appears to have been disturbed at

some point in the past. This means that the majority of mechanical operations are not feasible and as such it is best suited to permanent grazing.

Gillian Iles Resource Planning Team Guildford Statutory Group ADAS Reading

SOURCES OF REFERENCE

British Geological Survey (1971) *Sheet No.268, Reading, 1:63,360 (drift edition).* 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.

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 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.
III	The soil profile is wet within 70 cm depth for 91-180 days in most years or, if there is no slowly permeable layer present within 80 cm depth, it is wet within 70 cm for more than 180 days, but only wet within 40 cm depth for between 31-90 days in most years.
IV	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	eLEY:	Ley Grass	RGR: Rough Grazing
SCR:		Scrub	CFW:	Coniferous Woodland
DCW:	Deciduous Wood			
HTH:	Heathland	BOG:	Bog or Marsh	FLW: Fallow
PLO:	Ploughed	SAS:	Set aside	OTH: Other
HRT:	Horticultural Cros	os		

- 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	EX:	Exposure
FR:	Frost Risk	GR:	Gradient	MR:	Microrelief
FL:	Flood Risk	TX:	Topsoil Texture	DP:	Soil Depth
CH:	Chemical	WE:	Wetness	$\mathbf{W}\mathbf{K}$:	Workability
DR:	Drought	ER:	Erosion Risk	WD:	Soil Wetness/Droughtiness
ST:	Topsoil Stonines	SS			

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:	Silt 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:

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
CH: chalk
CR: soft, argillaceous, or silty rocks
CH: gravel with non-porous (hard) stones

MSST: soft, medium grained sandstone GS: gravel with non-porous (nard) stones

SI: soft weathered igneous/metamorphic rock

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 WK: weakly developed MD: moderately developed

ST: strongly developed

ped size F: fine M: medium

C: coarse VC: very coarse

ped shape S: single grain M: massive

GR: granular
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

10. **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

Site Name: WOKINGHAM DLP SH11,13,14 Pit Number: 1P

Grid Reference: SU73006760 Average Annual Rainfall: 662 mm

Accumulated Temperature: 1467 degree days

Field Capacity Level : 138 days

Land Use : Ley
Slope and Aspect : 01 degrees NW

HORIZON	TEXTURE	COLOUR	STONES >2	TOT.STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0- 28	OMSL	10YR42 00	3	12	HR					
28- 46	SCL	10YR43 53	0	25	HR		MDCSAB	FR	M	
46- 64	MS	10YR64 00	0	57	HR	С			M	
64- 90	LMS	10YR64 00	0	50	HR	M			М	
90-120	С	25Y 62 00	0	30	HR	М		FM	Р	

Wetness Grade: 1 Wetness Class : I

> Gleying :046 cm SPL :090 cm

Drought Grade: 3B APW: 94 mm MBW: -21 mm

APP : 75 mm MBP : -35 mm

FINAL ALC GRADE : 3B

MAIN LIMITATION: Droughtiness

Site Name: WOKINGHAM DLP SH11,13,14 Pit Number: 2P

Grid Reference: SU73106710 Average Annual Rainfall: 662 mm

Accumulated Temperature: 1467 degree days

Field Capacity Level : 138 days Land Use : Arable Slope and Aspect : degrees

HORIZON	TEXTURE	COLOUR	STONES >2	TOT.STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0- 29	MSL	10YR21 00	1	5	HR					
29- 42	MSL	75YR34 00	0	10	HR		WKCSAB	FR	M	
42- 50	LMS	75YR44 00	0	10	HR			VM	Р	
50-120	LMS	75YR44 00	0	55	HR				Р	

Wetness Class : I Wetness Grade: 1

Gleying : cm SPL cm

Drought Grade: 3B APW : 66 mm MBW : -49 mm

APP : 66 mm MBP : -44 mm

FINAL ALC GRADE : 3B

MAIN LIMITATION: Droughtiness

Site Name: WOKINGHAM DLP SH11,13,14 Pit Number: 3P

Grid Reference: SU72806740 Average Annual Rainfall: 662 mm

Accumulated Temperature: 1467 degree days

Field Capacity Level : 138 days
Land Use : Ploughed
Slope and Aspect : degrees

HORIZON	TEXTURE	COLOUR	STONES >2	TOT.STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0- 30	MSL	10YR42 00	4	15	HR					
30- 50	SCL	10YR43 00	0	40	HR		WKCSAB	FR	M	
50- 55	MSL	10YR62 00	0	60	HR		WKCSAB	VF	M	
55- 75	LMS	10YR62 00	0	60	HR		WKCSAB	VF	M	
75-120	MS	10YR63 00	0	60	HR				M	

Wetness Grade: 1 Wetness Class: I

Wetness Class : I
Gleying : cm
SPL : No SPL

Drought Grade : 3B APW : 78 mm MBW : -37 mm

APP : 71 mm MBP : -39 mm

FINAL ALC GRADE : 3B

MAIN LIMITATION : Droughtiness

Site Name: WOKINGHAM DLP SH11,13,14 Pit Number: 4P

Grid Reference: SU73266816 Average Annual Rainfall: 662 mm

Accumulated Temperature: 1467 degree days

Field Capacity Level : 138 days

Land Use : Permanent Grass Slope and Aspect : degrees

HORIZON	TEXTURE	COLOUR	STONES >2	TOT.STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0- 28	MSL	10YR43 00	2	8	HR					
28- 45	MSL	10YR53 00	0	15	HR	С	MDCSAB	FR	M	
45- 55	SCL	25Y 63 53	0	15	HR	М	MDCPR	FM	P	
55- 80	С	25Y 51 00	0	5	HR	М	MDCPR	VM	Р	
80-120	С	25Y 51 00	0	15	HR	M	MDCPR	VM	Р	

Wetness Grade: 2 Wetness Class : III

Gleying :028 cm SPL :045 cm

Drought Grade: 3A APW: 116mm MBW: 1 mm

APP : 96 mm MBP : -14 mm

FINAL ALC GRADE : 3A

MAIN LIMITATION : Droughtiness

Site Name: WOKINGHAM DLP SH11,13,14

Pit Number: 5P

Grid Reference: SU73906790 Average Annual Rainfall: 662 mm

Accumulated Temperature: 1467 degree days

Field Capacity Level : 138 days

Land Use : Permanent Grass Slope and Aspect : degrees

HORIZON	TEXTURE	COLOUR	STONES >2	TOT.STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0- 16	MZCL	10YR41 00	0	1	HR	F				
16- 40	HCL	25Y 52 62	0	0		M	WKCSAB	FM	Р	
40- 60	С	25Y 61 62	0	0		М	WKVCAB	FM	Р	

Wetness Grade : 3B

Wetness Class : IV

Gleying :016 cm SPL :016 cm

Drought Grade:

APW: mm MBW: 0 mm

APP: mm MBP: 0 mm

FINAL ALC GRADE : 3B MAIN LIMITATION : Wetness

Site Name: WOKINGHAM DLP SH11,13,14 Pit Number: 6P

Grid Reference: SU74206860 Average Annual Rainfall: 662 mm

Accumulated Temperature: 1467 degree days

Field Capacity Level : 138 days

Land Use : Permanent Grass Slope and Aspect : degrees

HORIZON	TEXTURE	COLOUR	STONES >2	TOT.STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0- 25	MSL	10YR44 43	1	5	HR					
25- 43	MSL	10YR44 54	0	5	HR		MDCSAB	FR	М	
43- 67	MSL	10YR53 00	0	5	HR	M	MDCSAB	FR	М	
67- 95	MSL	10YR53 00	0	56	HR	M			M	
95-120	MS	10YR64 00	0	56	HR	М			М	

Wetness Class Wetness Grade: 1 : I

Gleying :043 cm SPL : No SPL

Drought Grade: 3A APW: 113mm MBW: -2 mm

APP: 103mm MBP: -7 mm

FINAL ALC GRADE : 3A

MAIN LIMITATION : Droughtiness

Site Name: WOKINGHAM DLP SH11,13,14

Pit Number: 7P

Grid Reference: SU72786797 Average Annual Rainfall: 662 mm

Accumulated Temperature: 1467 degree days

Field Capacity Level : 138 days

Land Use : Cereals
Slope and Aspect : 02 degrees S

HORIZON	TEXTURE	COLOUR	STONES >2	TOT.STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0- 29	MSL	10YR42 00	3	8	HR					
29- 52	LMS	10YR52 00	0	58	HR	F		VF	M	
52- 75	MS	10YR52 00	0	31	HR	С		VF	M	
75- 95	MS	75YR68 58	0	36	HR			VF	M	
95–120	LMS	05Y 62 00	0 .	65	HR	С		VF	M	

Wetness Grade: 1

Wetness Class : I

Gleying :052 cm

SPL

: No SPL

Drought Grade: 3B

APW: 70 mm MBW: -45 mm

APP : 61 mm MBP : -49 mm

FINAL ALC GRADE : 3B

MAIN LIMITATION : Droughtiness

Site Name: WOKINGHAM DLP SH11,13,14

Pit Number: 8P

Grid Reference: SU72506770 Average Annual Rainfall: 662 mm

Accumulated Temperature: 1467 degree days

Field Capacity Level : 138 days

Land Use : Cereals
Slope and Aspect : 03 degrees SE

HORIZON	TEXTURE	COLOUR	STONES >2	TOT.STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0- 26	MSL	10YR42 00	1 .	5	HR					
26- 35	MSL	10YR53 00	0	5	HR	С	MDCSAB	FR	M	
35- 67	SCL	25Y 63 00	0 .	2	HR	М	MDVCPR	FM	Р	
67-120	SCL	25Y 63 00	0	2	HR	M	WKCSAB	FM	Р	

Wetness Grade : 3A

Wetness Class

: IV

Gleying :026 cm

SPL

:035 cm

Drought Grade: 2

APW: 129mm MBW: 14 mm

APP: 100mm MBP: -10 mm

FINAL ALC GRADE : 3A MAIN LIMITATION : Wetness

_	Sampl	F	Δ	SPECT				WFTI	NESS	_WH	EAT-	-P0	TS-	М	.REL	EROSN	FROST	CHE	м	ALC	
	NO.	GRID REF		OI LOI	CDDNT	CLEV	/ SDI	CLASS			MB		MB	DRT	FLOOD		XP DI		LIMIT	ALC	COMMENTS
-	10.	GRID KLI	USL		GRUNT	GLL	JEL	CLASS	GRADE	AF	PID	AF	טויו	DKI	I LOOD	L	VL DI	31	LIMIT		COMPLNIS
_	1	SU74306948	PLO	S	01	030		2.	2	72	-43	73	-37	3B					DR	3B	Imp55 gravelly
	1P	SU73006760	LEY	NW	01	046	090	1	1	94	-21	75	-35	3B					DR	3B	AB impen at 50
	2	SU74056938	PLO	S	03	028	075	2	2	119	4	113	3	3A					WD	2	Imp90 gravelly
_	2P	SU73106710	ARA					1	1	66	-49	66	-44	3B					DR	3B	Iron pan 42
	3	SU74206940	PLO	S	06	030	030	4	3B		0		0						WE		Imp60 gravelly
	3P	SU72806740	PLO					1	1	78	-37	71	-39	3B					DR	3B	Pit100 ASP179
_	4	SU74106930		S	03	030	055	3	3A	94		103	-7	3B					WD	3A	Imp60 gravelly
	4P	SU73266816				028		3	2	116		96	-14	3A					DR	3A	Pit90 Augd120
	5	SU74336928					070	2	1	108	-7		-13	3A					DR	3A	Imp95gravelly
_		SU73906790					016	4	3B		0		0						WE	3B	Surf. water nr
																					Jul 11 Major III
	6	SU74206920	PLO	S	02	0	025	4	3B		0		0						WE	3B	
		SU74206860				043		1	1	113		103	-7	3A					DR	3A	Pockets of scl
	7	SU74406920				028		2	2	86	-29		-19	3B					DR	3A	Imp60 gravelly
		SU72786797		S	02	052		1	1	70	-45		-49	3B					DR	3B	At boring 101
	8	SU74306910			-	035		2	1	77	-38		-28	3B					DR	3B	Imp70 gravelly
_	_							_			-	02		00						00	impro graverij
	8P	SU72506770	CFR	SE	03	026	035	4	3A	129	14	100	-10	2					WE	3A	
	9	SU74196907		-	00	028	000	2	1	75	-40		-30	3B					DR	3B	Imp70 gravelly
_	10	SU74446907				030	075	2	1	106	-9		-28	3A					DR	3A	Wet at 55 plus
	11	SU73506900		SW	02	030		3	2	115		108	-2	3A					WD	2	Imp95 gravelly
	12	SU73526894		On	OL.	026		2	1	109		100	-10	3A					DR	3A	Imp100gravelly
		0070020054	· Ln			OLO	0,0	- .		103	·	100	10	5 A					DIC	JA	Improograverry
	13	SU73406890	PGR	SW	02	030	050	3	2	129	14	102	-8	2					WD	2	Augd to depth
	14	SU73676892		W	02		025	4	3B	123	0	102	0	-					WE	3B	Plastic 25
	15	SU73706890		,,	UL.	025		3	3A	125		101	-9	2					WE	3A	Flastic 23
_	16	SU73700030 SU73286882		SW	01	030		3	2	105		105	-5 -5	3A					DR	3A	Imp90 gravelly
	17	SU73526878		SE	02	025		4	3B	103	0	105	0	JA					WE	3B	London clay
	17	3073320070	I GIK	OL.	UZ.	023	023	7	30		U		U						ML	SD	London Clay
	18	SU73706880	PGR	S	03	0	025	4	3B		0		0						WE	3B	Plastic 25
	19	SU73876881		SE	03	025		3	3A	133		109	-1	2					WE	3A	Horizon2 Q hcl
	20	SU73606870		SE	02	030		3	2	122		103	-2	2					WD	2	HOT IZONZ Q NCT
		SU73506863			02		065	2	1	119		108	-2						DR	2 3A	Pandonlina Cu2
_	21	SU73806870			02		030	4	3D	113	0	100	0	JA							Borderline Gr2
	21	3073000670	Fuk	3	02	030	030	4	3B		U		U						WE	3B	
	22	SU73786860	DCD	C.F.	01	020	045	2	24	110	_	00	10	24					LID	24	
		SU74006860		SE	01	030	045	3	3A	110		92	-18	3A					WD	3A	. 70
	23			SE	01	050	000	2	1	95	-20		-9	3A					DR	3A	Imp70 gravelly
	24	SU74206860				024		2	1	98	-17	102	-8	3A					DR	3A	Imp75 gravelly
	25	SU73076857 SU72956853					055	3 3	3A 3A	102		111	-4	3A					MD	3A	A - d t - d - db
_	26	3072930633	PGK			U	055	3	SA	134	19	111	1	2					WE	3A	Augd to depth
	27	SU73706850	DCD	er.	02	020	060	2	2	105	10	102	0	2					LID	2	110 0 1 2-
	27			SE	02	028		3	2	125		102		2					WD	2	H2 Q ms1 - 3a
_	28	SU73906850				045	080	1	1	137		112	2	2					DR	2	T 70
	29	SU74106850				00-	065	1	1	92	-23		-11	3B					DR	3A	Imp70 gravelly
	30	SU74306850				025		3	2	106		102	-8	ЗА					DR	3A	Imp90 gravelly
	31	SU72946844	PGR			0	036	4	3B		0		0						WE	3B	
		0.170		-		90 (200		_	_		02020		- Fr	-					2000		
	32	SU73806840		SE	01	0		2	2	59	-56		-51						DR	3B	Imp40 gravelly
	33	SU74006840	PGR			025	040	3	3A	78	-37	80	-30	3B					DR	3B	Imp55 gravelly

_																			
	SAMPL	-E	A:	SPECT			WET	NESS	-WH	EAT-	-P0	TS-		M. REL	EROSN FR	OST	CHEM	ALC	
	NO.	GRID REF	USE		GRDNT	GLEY SPL	CLASS	GRADE	AP	MB	AP	MB	DRT	FL00D	EXP	DIST	LIMIT		COMMENTS
	34	SU74206840	PGR			040 060	3	2	144	29	104	-6	2				DR	2	Augd to depth
	35	SU73706830	FLW	E	02	028 060	3	2	125	10	100	-10	2					2	Borderline 3a
	36	SU73906830	PGR			015 015	4	3B		0		0	_				WE		
		SU74106830				028	2	2	78	-37	70	-32	3B					3B	Imp70 gravelly
		SU73176826		c	01	020											DR	3A	Imp48 gravelly
	30	30/31/0620	ruk	S	UI		1	1	52	-63	52	-58	4				DR	3B	Imp50 gravelly
	20	0117000004						_											
_		SU73626824				030 064	3	2	113	-2		-26	3A				DR	3A	Just WC III
		SU73776820				020 035	4.	3A	76	-39	85	-25	3B				DR	3B	Imp70 gravelly
		SU74006820				045 045	3	3A	111	-4	105	-5	3A				WE	3A	S1.gley0; Imp85
	42	SU72786815	PGR			023 070	2	1	133	18	110	0	2				DR	2	Augd to depth
	43	SU73106815	PGR	S	01		1	1	61	-54	61	-49	4				DR	3B	Imp50 gravelly
																			54
	44	SU73266816	PGR	S	01	028 055	3	2	100	-15	101	-9	ЗА				DR	ЗА	Imp85 gravelly
_	45	SU73706810	FLW			030 090	2	1	132	17	99	-11	3A					ЗА	,
	46	SU73906812	PGR			0 010	4	3B		0		0					WE	3B	Rushes
	47	SU74106810	PGR			020 020	4	3B		0		0						3B	Rusiles
		SU72606800		S	02		1	1	86	-29	91	-19	3B						T6511
			o	•	OL.		•		00	-23	31	-13	30				DR	3A	Imp65 gravelly
	49	SU72806800	CED	S	02	038	2	1	01	24	07	12	20						
							2	1	91	-24		-13	3B				DR	3B	Imp72 gravelly
		SU73026800		S		025 047	3	2	121		99	-11	3A					3A	
		SU73226802		S	01	026 060	3	2	126		103	-7	4				WD	2	
		SU73306800				028 055	3	2	112	-3	103	-7	3A				DR	3A	Imp100gravelly
	53	SU73606800	LEY			030 075	2	1	111	-4	84	-26	3A				DR	3A	
_																			
	54	SU73826800	PGR			025 050	3	ЗА	103	-12	109	-1	3A				WD	ЗА	Imp80 gravelly
	55	SU74006800	PGR			0 025	4	3B		0		0					WE	3B	
	56	SU72506790	CER			030	2	1	99	-16	99	-11	3A				DR	3A	Prob stonier3b
	57	SU72686788	CER	S	02	065	1	1	86	-29	85	-25	3B						Imp90 gravelly
	58	SU72906790	PGR	S	01	026 035	4	ЗА	119		97	-13	ЗА					3A	Augd to depth
																	710	0,,	raga to acpoin
_	59	SU73106790	PGR			050	1	1	124	9	100	-10	2				DR	2	Imp110augus 11.
		SU73616791				035 070	2	1	113		103	-7	3A						Imp110gravelly
		SU73906790				015 030	4	3B	113	0	103	0	SA						Imp100gravelly
							2000		115		110		24					3B	
_		SU74106790				045 045	3	3A	115		112	2	3A						V wet 60 -Q 3b
	63	SU72406780	CER				1	1	59	-56	59	-51	4				DR	3B	Imp45 gravelly
		SU72606780				023 055	3	2	110	-5		-16					DR	3A	Augd to depth
		SU72806780			01	028 055	3	2	126	11	99	-11	3A				DR	3A	Augd to depth
		SU73006780		N	1		1	1	68	-47	68	-42	3B				DR	3B	Imp45 gravelly
		SU73206780				010	2	1	39	-76	39	-71	4	Υ		Υ	MR	4	Disturbed
_	68	SU73806780	PGR			030	2	2	89	-26	97	-13	3B				DR	ЗА	Imp70 gravelly
	69	SU72306770	CER	SE	01		1	1	107	-8	80	-30	3A				DR	3A	Wet & stony
	70	SU72506770	CER	SE		030 035	4		123		96	-14	3A					3A	nee a scoriy
		SU72706770		-0.00	V. F. 1. T.	028	2		83	-32		-23	3B						TmoCE aut = 13
		SU72876769	700.000 (1.0)			040	1	1	99										Imp65 gravelly
		SU73106770		N		040				-16		-1	3A						Imp70 gravelly
	/3	50/5100//0	ILLM	IA	01		1	1	49	-66	49	-61	4				DR	3B	Imp50 gravelly
	74	0172200777										202							
		SU73306770					1	1	66	-49		-44							Imp45 gravelly
	75	SU73706770	PGR				1	1	78	-37	/8	-32	3B				DR	3B	Imp50 gravelly
-																			

			00505																
SAMP			SPECT				VESS		EAT-	-P0			REL	EROSN	FROS			ALC	
NO.	GRID REF	USE		GRDNT	GLEY SPL	CLASS	GRADE	AP	MB	AP	MB	DRT	FLOOD	Е	XP	DIST	LIMIT		COMMENTS
76	SU72606760	STB			030	2	1	92	-23	89	-21	3B					DR	3B	V. compact 100
77	SU72806760					1	1	70	-45		-40	3B					DR	3B	Imp50 gravelly
78	SU73006760		NW	01		1	1	64	-51		-46	4					DR	3B	
79	SU73206760		1414	01	030 045	3	3A	106		104	-6	3A							Imp50 gravelly
80	SU73626760				025 050	3	3A	98									WD	3A	See 5P -sp1 45
. 00	3073020700	ruk			023 030	3	SA	90	-17	109	-1	3A					WD	3A	Imp70 gravelly
81	SU73806760	PGR			030	2	2	82	-33	89	-21	3B					DR	3B	Imp70 gravelly
82	SU72706750	PLO			028	2	1	65	-50	65	-45	3B					DR	3B	Imp48 gravelly
83	SU72906750	PLO	N	01		1	1	79	-36	83	-27	3B					DR	3B	Imp60 gravelly
84	SU73106750	FLW				1	1	57	-58		-53	4					DR	3B	Imp45 gravelly
⁻ 85	SU73706750	PGR			030 070	2	1	108		109	-1	3A					DR	ЗА	Imp80 gravelly
86	SU73196745					1	1	29	-86	29	-81	4					ST	3B	Imp40 gravelly
87	SU73566745	PGR			0	2	2	92	-23	100	-10	3B					DR	3A	Imp70 gravelly
88	SU72606740	CER				1 .	1	69	-46	69	-41	3B					DR	3B	See 5P
89	SU72826742	PL0	S	01		1	1	86	-29	90	-20	3B					DR	3B	Imp75 gravelly
90	SU73016741	FLW			027	2	1		0		0						ST	3B	Imp45 gravelly
91	SU73646740	DCD			0	2	2	E7	F0	57	F2	4					20	25	
92	SU73806740						1	57	-58 -24			4						3B	Imp40 gravelly
					035	1		91			-10	3B						3A	Imp65 gravelly
93	SU72606730				058 068	2	1	128		106	-4	2						2	Augd to depth
94	SU72706730				050 072	2	1	131		105	-5	2						2	Prob stonier3a
95	SU72806730	CER			035 060	3	2	107	-8	104	-6	3A					DR	3A	Imp90 gravelly
96	SU72886732	CER			030	2	1	87	-28	91	-19	3B					DR	ЗА	Imp60 gravelly
97	SU73006730	PLO			030 045	3	2	82	-33	88	-22	3B						ЗА	Imp65 gravelly
98	SU73106730	PLO			030 075	2	1	116		90	-20	3A						3A	Augd to depth
99	SU73306730	OSR	W	03	035		1	128		105	-5	2						2	Augd to depth
100	SU73506730	PGR	W	03	0 030	4	3B		0		0							3B	Augu to dopon
—101	SU72606720					1	1	94	-21	103	-7	3B					DR	3A	Imp70 gravelly
102	SU72706720	CER			025 045	3	2	83	-32	88	-22	3B					DR	3A	Imp60 gravelly
103	SU72806720						1	67	-48	67	-43	3B					DR	3B	Imp50 gravelly
104	SU73006720	PL0			025	2	1	71	-44	72	-38	3B					DR	3B	Imp55 gravelly
105	SU73106720	PL0				1	1	75	-40	76	-34	3B					DR	3B	Imp55 gravelly
106	SU73606720	DCD			030	2	1	115	0	110	2	24					00	^	T 00
100	SU72606710				030		1	115		112	2	3A						2	Imp90 gravelly
					030		1	64	-51		-46	4						3B	Imp42 gravelly
108	SU72706710				045 060		1	102	-13		-3							3A	Imp80 gravelly
109	SU72906710				005		1	55	-60			4						3B	Imp40 gravelly
— 110	SU73006710	CER			025	2	1	113	-2	94	-16	3A					DR	3A	Waterlogged 55
111	SU73106710	PLO				1	1	64	-51	64	-46	4					DR	3B	Imp50 gravelly
112	SU73506710	PGR	W	03	0 080		2	137		116	6	2						2	Imp110gravelly
113	SU72606702				065		1	153		107	-3							2	Augd to depth
114	SU72706700				025 045		3A	127		104	-6							3A	gu uu uupun
					025		1	59	-56		-51							3B	Imp45 gravelly
_						_	1	-	00	33	Ji						DI	20	Impro graverry
116	SU72906700	CER			030	2	1	110	-5	83	-27	3A					DR	3A	Augd to depth
117	SU72986702	ARA			015	2	1	106	-9	88	-22	3A					DR	ЗА	Wet at 60

program: ALC012 LIST OF BORINGS HEADERS 06/06/96 WOKINGHAM DLP SH11,13,14

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SAMP	LE	ASPECT				MEII	NE22	-WH	EAI-	-P0	15-	M.	REL	EROSN	FROST	CHEM	ALC	
NO.	GRID REF	USE	GRDNT	GLEY	SPL	CLASS	GRADE	AP	MB	AP	MB	DRT	FL00D	EX	P DIST	LIMIT		COMMENTS
⁻ 118	SU72906690	PLO		025 0	060	3	2	128	13	104	-6	2				WD	2	Augd to depth
119	SU73006690	PL0		030 0)45	3	2	95	-20	94	-16	3A				DR	3A	Imp90 gravelly

----MOTTLES---- PED ----STONES---- STRUCT/ SUBS SAMPLE DEPTH TEXTURE COLOUR COL ABUN CONT COL. GLEY >2 >6 LITH TOT CONSIST STR POR IMP SPL CALC 10YR42 00 0-30 mc1 6 0 HR 15 30-40 10YR52 00 75YR56 00 M 0 0 HR hc1 30 Borderline c 40-55 ms1 25Y 52 00 75YR56 00 M 0 0 HR 20 M Q iron pan 1P 0-28 10YR42 00 3 0 HR oms 1 12 28-46 scl 10YR43 53 0 0 HR MDCSAB FR M 25 Borderline msl 10YR64 00 10YR58 00 C 46-64 Υ 0 0 HR 57 ms M Wet sieved 64-90 10YR64 00 10YR58 00 M Y 0 0 HR 50 М Wet sieved 90-120 c 25Y 62 00 10YR58 00 M 0 0 HR 30 FM P 0-28 10YR42 00 mc1 2 0 HR 5 28-60 mc1 10YR53 00 10YR56 46 C 00MN00 00 Y 0 0 HR 2 М Borderline hol 60-75 scl 10YR62 00 10YR56 00 C Y 0 0 HR 2 M Light scl 75-90 25Y 62 00 75YR56 00 M Y 0 0 HR P scl 2 Border sc; Impen90 2P 0-29 ms 1 10YR21 00 1 0 HR 29-42 75YR34 00 ms1 0 0 HR 10 WKCSAB FR M 42-50 75YR44 00 0 0 HR 1ms 10 VM P Iron Pan 50-120 lms 75YR44 00 0 0 HR 55 P Pit to 60 0 - 30mc1 10YR42 00 4 0 HR 10 30-50 10YR62 00 10YR56 00 M 0 0 HR С 10 Р Υ Very firm 50-60 25Y 62 00 10YR56 00 M 0 0 HR 25 Р Υ Imp 60 gravelly 0-30 10YR42 00 ms1 4 0 HR 15 40 WKCSAB FR M 30-50 10YR43 00 0 0 HR scl 50-55 msl 10YR62 00 0 0 HR 60 WKCSAB VF M 55-75 lms 10YR62 00 0 0 HR 60 WKCSAB VF M 10YR63 00 75-120 ms 0 0 HR 60 0-30 10YR42 00 2 0 HR 5 30-55 10YR63 00 10YR66 61 C 0 0 HR mc1 10 55-70 10YR62 00 75YR58 00 M 0 0 HR hc1 15 Heavy scl 0-28 10YR43 00 2 0 HR 8 15 MDCSAB FR M 28-45 10YR53 00 10YR56 00 C 0 0 HR ms1 γ 45-55 scl 25Y 63 53 75YR68 00 M Y 0 0 HR 15 MDCPR FM P Y 55-80 25Y 51 00 75YR68 58 M Y 0 0 HR 5 MDCPR VM P C ٧ Borderline sc 80-120 c 25Y 51 00 75YR68 58 M Y 0 0 HR 15 MDCPR VM P 0-30 10YR41 42 ms1 3 0 HR 8 30-55 10YR52 00 10YR56 66 C 00MN00 00 Y 0 0 HR 15 M 55-70 10YR52 62 10YR58 00 C 00MN00 00 Y 0 0 HR ms1 25 M 70-90 25Y 62 00 10YR58 00 M Y 0 0 HR 10 Р Heavy scl 25Y 62 00 10YR58 68 M 90-95 SC Υ 0 0 HR 20 Imp 95 gravelly 10YR41 00 10YR46 00 F 0-16 mzcl 0 0 HR 1 Borderline mcl 16-40 hc1 25Y 52 62 10YR68 00 M 0 0 0 WKCSAB FM P 40-60 25Y 61 62 75YR68 00 M Y 0 0 0 WKVCAB FM P Tending massive

----STONES---- STRUCT/ SUBS ----MOTTLES---- PED TEXTURE COLOUR SAMPLE DEPTH COL ABUN CONT COL. GLEY >2 >6 LITH TOT CONSIST STR POR IMP SPL CALC 6 0-25 mc1 10YR42 00 75YR58 00 C Y 1 0 HR 5 25-60 hc1 10YR52 00 10YR58 00 C γ 0 0 HR 10 P Υ Very firm 60-80 10YR52 00 75YR56 00 M 0 0 HR C Υ 10 Р 0-25 10YR44 43 0 HR 5 ms1 1 25-43 10YR44 54 ms 1 0 0 HR 5 MDCSAB FR M 43-67 10YR53 00 75YR58 00 M ms 1 0 0 HR 5 MDCSAB FR M 67-95 10YR53 00 75YR58 00 M Υ 0 0 HR 56 M Wet sieved 95-120 ms 10YR64 00 75YR58 68 M 0 0 HR 56 M Q stones as above 0-28 10YR42 00 mc1 2 0 HR 8 28-55 mc1 10YR53 52 10YR56 00 C 00MN00 00 Y 0 0 HR 10 55-60 hc1 10YR52 53 10YR58 56 C 00MN00 00 Y 0 0 HR 40 M Imp 60 gravelly 0-29 10YR42 00 3 0 HR Wet sieved 29-52 1ms 10YR52 00 75YR46 00 F 0 0 HR 58 VF M Wet sieved 52-75 10YR52 00 75YR56 00 C DOMNOO OO Y 0 0 HR VF M 31 ms Wet sieved 75-95 75YR68 58 ms 0 0 HR 36 VF M Wet sieved 95-120 05Y 62 00 75YR66 00 C 0.0 HR VF M 65 Estimated stone 0-28 10YR41 42 8 ms1 1 0 HR 8 10YR53 00 10YR56 00 F 28-35 ms 1 0 0 HR 25 M 35-60 10YR53 00 10YR56 00 C 0 0 HR 40 M Borderline scl 60-70 10YR52 53 10YR58 00 M 0 0 HR scl 60 M Borderline msl 8P 0-26 ms1 10YR42 00 1 0 HR 5 26-35 ms l 10YR53 00 75YR56 46 C 00MN00 00 Y 0 0 HR 5 MDCSAB FR M Borderline scl 35-67 25Y 63 00 75YR68 00 M 25Y 62 00 Y 2 MDVCPR FM P scl 0 0 HR Y Y Heavy scl 67-120 sc1 25Y 63 00 75YR58 00 M 25Y 62 00 Y 2 WKCSAB FM P 0 0 HR Tending massive 0-28 10YR41 42 0 0 HR 10 ms1 10YR52 00 10YR56 00 C 28-45 ms1 Y 0 0 HR 35 M 45-65 10YR53 00 75YR58 00 C ms1 Υ 0 0 HR 50 M 65-70 10YR58 00 0 0 HR 60 Imp 70 gravelly 10 0 - 3010YR41 00 ms1 1 0 HR 10 30-45 ms1 10YR53 00 10YR56 00 C 0 0 HR 20 M 10YR62 00 10YR58 00 C 45-55 ms1 00MN00 00 Y 0 0 HR 30 Μ 25Y 62 00 10YR58 68 M 55-75 1ms 00MN00 00 Y 0 0 HR 40 M Very wet 75-120 sc1 25Y 51 61 75YR58 00 M 00MN00 00 Y 0 0 HR 30 Р Border sc -v wet 11 0 - 30ms1 10YR42 00 0 0 0 30-50 mc1 10YR62 00 75YR58 00 C 10YR71 00 Y 0 0 0 M 50-60 10YR62 00 75YR68 00 C 0 0 hcl ٧ 0 60-95 25 Y62 00 75YR68 00 M 0 0 C ٧ 0 P Imp 95 gravelly 12 0-26 ms1 10YR41 42 0 0 HR 10 26-50 10YR53 63 10YR56 58 C ms1 0 0 HR 15 M Borderline scl 50-70 10YR62 00 10YR58 00 M Y 0 0 HR ms1 5 M Borderline scl 70-90 25Y 63 00 75YR58 00 C scl Υ 0 0 HR 25 P Υ Heavy scl 90-100 25Y 53 00 75YR58 00 M 0 0 HR Imp 100 gravelly

				MC	TTLES	S PED			STO	NES	STRUCT/	SUBS		
SAMPL	E DEPTH	TEXTURE	COLOUR	COL A	ABUN	CONT COL.	GLI						IMP SPL CALC	
_ 13	0-30	msl	10YR42 00					0	0 HI					
	30-50	mcl	10YR62 00		വ വ	10YR73	00.3					м		
	50-75	hc1	10YR73 00			101873		Y 0	0	0		М		
_	75–100		10YR73 00					Y 0		1977		P	Y	Prob spl
	100-110		10YR73 00							0		P	Y	
	110-120		10YR73 00					Y 0		0		P	Υ	
	110 120	301	101875 00	751800	00 M			Y 0	0	0		Р	Υ	
14	0-25	hcl	10YR42 00	10YR56	00 C		,	y 0	O HE	2				
	25-60	zc	25Y 61 00	75YR68	56 M			7 0		0		Р	Υ	
15		mcl	10YR43 00					1	0 HF	5				
	25-50	mcl	10YR53 43				١	/ 0	0 HF	15		М		
	50–120	zc	25Y 61 00	75YR68	56 M		١	/ 0	O HE	2		P	Υ	
16	0-30	ms1	10YR42 00					^	0.115					
10	30-60	scl	10YR53 00	757050	00.0	10//051	00.1	0	0 HF					
	60-75	scl	10YR53 00			10YR61		177/				М		Tending msl
_	75-90		10YR53 00			10YR61						Р	Υ	Heavy scl
	75-30	lms	TUTKOZ UU	751868	00 M		١	0	O HR	25		М		Clay lens, Imp 90
17	0-25	mcl	10YR42 00					0	O HR	1				Imp 90 gravelly
_	25-35	hc1	10YR61 00	75YR46	00 C		Υ		0	0		Р	Υ	Imp 90 gravelly
	35-90	С	10YR62 00				Υ		0	0		P	Y	
									·					
_ 18	0-25	mc1	10YR42 00	10YR56	00 C		Υ	1	O HR	3				
	25-60	zc	25Y 61 00				Υ		0	0		Р	Υ	
													_	
19	0-25	mc1	10YR43 00					1	0 HR	5				
_	25-60	mc1	10YR64 00	10YR56	00 C	00MN00	00 Y	0	0 HR			М		Borderline hol
	60-120	С	25Y 51 00	75YR68	00 M		Υ		0	0		P	Υ	border rine rici
_ 20	0-30	msl	10YR42 00					0	0 HR	2				
	30-50	mcl	10YR53 00	10YR58	00 C		Υ	0	0 HR	0		M		
	50-65	scl	10YR63 00	75YR58	00 C		Υ	0	0	0		Р	Υ	Heavy scl
_	65–100	sc	10YR62 00	75YR58	00 M		Υ	0	0	0		Р	Υ	•
004	0.05													
20 <i>A</i>		msl	10YR41 00					0	0 HR	===				
_	35-42	msl	10YR43 00					0	0 HR	2		М		
	42-65	scl	10YR53 00			10YR61	00 Y	0	0 HR	2		М		Borderline msl
	65–75	hc1	10YR62 00				Υ	0	0 HR	2		Р	Υ	Prob spl
	75–100	С	10YR63 00	75YR58 (00 M		Υ	0	0 HR	2		Р	Υ	
21	0-30	mcl	10YR42 00					0	0 HR	1				
	30-50	hc1	10YR61 00	75VP/16 (nd c	10YR71	00 V		0			D .		
	50-80	C	10YR52 00			TOTK/T				0		Р	Y	
_	80-85	С	10YR52 00				Y	100	0	0		P	Y	
	20 00		. O TROE 00	, JINJO (,0 M		Υ	U	0	0		Р	Υ	
22	0-30	mcl	10YR32 00					3	0 HR	12				
_	30-45	mc1	10YR32 00	75YR56 0	00 C		Υ			20		М		Borderline hcl
	45-55	hcl	10YR53 00	75YR58 0	00 C		Y		0 HR	25		P	Y	Solder Tille IICT
	55-90	С	10YR53 62				Y		0 HR	25		P	Y	
_	90-120	hcl	25Y 52 00				Υ		0 HR	25		P		Sandyish
														J

----MOTTLES---- PED ----STONES---- STRUCT/ SUBS SAMPLE DEPTH TEXTURE COLOUR COL ABUN CONT COL. GLEY >2 >6 LITH TOT CONSIST STR POR IMP SPL CALC 23 0-30 10YR41 00 10YR46 00 C Y 2 0 HR 2 30-50 scl 10YR62 00 75YR46 00 C Υ 0 0 HR 1 M Borderline mcl 50-60 10YR61 00 10YR58 00 C 0 0 HR Υ 2 ms 1 M 60-70 10YR71 00 0 0 HR 10 M Imp 70 gravelly 24 0-25 10YR43 44 1 0 HR 5 ms1 25 - 50ms1 10YR54 44 0 0 HR 5 M 50-60 ms1 25Y 52 00 75YR58 00 M Υ 0 0 HR 5 M 60-75 25Y 52 00 75YR58 00 M γ 0 0 HR P ٧ 10 Heavy scl; Imp 75 scl 0-24 mc1 10YR42 00 10YR46 00 F 0 0 0 24-45 mc1 10YR53 52 10YR56 00 C Υ 0 0 HR 5 M 45-55 25Y 62 00 10YR58 00 C 00MN00 00 Y 0 0 HR 5 P hc1 55-80 25Y 53 51 10YR58 00 M P 0 0 0 C 26 0-28 10YR41 00 10YR46 00 C Υ 0 0 mc1 28-50 25Y 41 00 10YR46 00 C Y O O HR mc1 5 M 50-55 00MN00 00 Y hc1 25Y 42 00 10YR46 00 M 0 0 HR 5 M Q spl 55-120 25Y 53 51 10YR58 68 M 0 0 Ρ 27 0-28 ms1 10YR43 00 1 0 HR 8 28-60 10YR64 53 10YR58 00 M 0 0 HR scl 5 Borderline msl 60-120 c 25Y 52 00 75YR58 00 M 0 0 HR 0-28 10YR42 00 28 0 0 HR mc1 1 28-45 scl 10YR53 00 10YR56 00 F 0 0 HR 2 M Tending msl 45-80 scl 10YR63 00 75YR56 00 C 0 HR 2 M Tending msl 80-120 c 10YR62 63 75YR56 00 M 0 0 HR 10 Р 29 0-30 ms1 10YR43 00 1 0 HR 5 30-40 10YR43 00 0 0 HR 10 ms1 40-70 10YR43 00 0 0 HR 20 Imp 70 gravelly ms1 M 30 0-25 ms1 10YR43 00 1 0 HR 5 10YR53 00 10YR56 00 C 25-45 0 0 HR ٧ 5 ms1 M 45-60 ms1 10YR64 00 10YR58 00 C Υ 0 0 HR 5 M 60-90 25Y 51 00 75YR58 00 M 00MN00 00 Y 0 0 HR Imp 90 gravelly C 10 10YR41 42 10YR46 00 C 31 0-25 Υ 0 0 HR mc1 3 25-36 mc1 10YR52 00 10YR46 56 C Υ 0 0 HR 5 M 36-80 25Y 53 51 10YR58 68 M 0 0 0 С 80-100 0 0 HR Р 25Y 53 51 10YR58 68 M 10 0-25 10YR42 00 10YR56 00 C Υ 1 0 HR 5 mc1 10YR53 00 10YR58 00 C 25-35 Υ 0 0 HR 30 Sandyish mc1 35-40 10YR64 00 10YR58 00 M 0 0 HR Imp 40 gravelly mc1 50 M 33 0-25 10YR43 00 1 0 HR 5 mc1 25-40 10YR53 00 10YR56 00 C Υ 0 0 HR hc1 5 M Tending mcl 40-55 25Y 52 00 75YR58 00 M 0 0 HR 30 Imp 55 gravelly

_					MOTTLEC	DED			OTONE		OTDUOT (01100		
24	MPLE	DEPTH	TEXTURE	COLOUR	MOTTLES						STRUCT/		001 0410	
SF	WIPLE	DEPIN	TEXTURE	COLOUR	COL ABUN C	CONT COL.	GLEY	>2	>6 LIII	101	CONS151	STR POR IMP	SPL CALC	
_	34	0-25	msl	10YR43 00				1	0 HR	5				
	٥,	25-40	mcl	10YR54 44				0	0 HR	5		м		Clichtly condy
		40-60	ms1		10YR56 00 C		Υ		0 HR	5		M M		Slightly sandy
_		60-85	scl		75YR68 53 M		Y		0 HR	5		P	Υ	Pandanlina an
		85-120	msl		75YR68 00 M		Y		0 HR	5			T	Borderline sc
		03 120	1113 1	231 01 00	751K08 00 PI		1	U	Unk	Э		М		
	35	0-28	msl	10YR43 00				1	0 HR	5				
_	00	28-40	ms1		10YR56 00 C		Υ		0 HR	5		м		
		40-60	msl		75YR58 00 M		Y		0 HR	20		M M		
		60-120			75YR58 68 M		Y		0 HR	2		P	Υ	
_		00 120	C	231 31 32	751136 06 11			U	Unk	2		P	Y	
	36	0-15	mzcl	10YR42 00				0	0	0				
	50	15-30	hc1		75YR56 00 C		Υ	0	0	0		D	V	
		30-70	c		75YR58 00 M		Y	0		0		P P	Y	Imp 70 gravelly
		00 70	· ·	101101 00	731130 00 11		1	U	U	U		-	1	imp 70 graveily
	37	0-28	mcl	10YR43 00				1	0 HR	4				
	3,	28-45	mc1		10YR68 00 C		Υ	0	0 HR	3		м		
		45-48	mc1		10YR68 00 M		Y		0 HR	45		M M		T 4011
		13 10	IIIC I	1011035 00	101100 00 11		1	U	UTIK	43		M		Imp 48 gravelly
	38	0-27	msl	10YR43 42				0	0 HR	15				Borderline lms
_	55	27-45	lms	10YR43 00				0	0 HR	25		м		
		45-50	lms	10YR44 00					0 HR	50		M		Borderline msl
		43 30	IIIIS	101144 00				U	UNK	30		М		Imp 50 gravelly
	39	0-30	msl	10YR42 00				3	0 HR	10				
	03	30-55	ms1		10YR46 00 C	00MN00	nn v		0 HR	40		м		
		55-64	msl		10YR46 00 C	00MN00			0 HR			M		D 1 1 2
		64-120	scl		75YR56 00 M	OUMMOU				45		M		Borderline scl
~		04-120	SCI	231 02 00	/31K30 UU M		Υ	U	0 HR	15		Р	Υ	Borderline c
	40	0-20	msl	10YR42 00				6	0 110	1 5				
	40	20-35	scl		10YR46 00 C	00MN00	00 V		0 HR 0 HR	15		м		D 1 1: 1
		35-70	hc1		10YR56 00 M	OOMNOO		0		30		M	V	Borderline msl
		33-70	IIC I	231 02 00	101K30 00 M	OOMINOO	00 1	U	0 HR	5		Р	Υ	With fine sand
	41	0-20	mzcl	10VP//3 00	10YR58 00 C		S	0	0	0				03:-1:13 - 3 - 1
	т.	20-45	mc1		10YR58 00 C		S	0		0		м		Slightly gleyed
		45-60	hc1		75YR58 00 C							M	V	Slightly gleyed
		60-70	hcl		75YR58 00 C		Υ	0	0	0		P	Υ	Q spl
		70-85					Y	0	0 HR	50		М		
_		70-65	scl	101832 02	75YR58 00 M		Υ	U	0 HR	5		М		Imp 85 gravelly
	42	0-23	mc l	10YR42 00				0	0 110	2				
	42		msl		10/056 00 0			0	0 HR	3				
		23-50	msl		10YR56 00 C	00111100	γ	0	0	0		М		
		50-70	mcl		10YR58 00 M	00MN00		0	0	0		М		
		70–120	С	25Y 52 62	10YR58 00 M		Υ	0	0	0		Р	Υ	
	40	0.05		40//040 44										
_	43	0-25	msl	10YR43 41				0	0 HR	10				Borderline lms
		25-40	msl	10YR43 00				0	0 HR	20		М		Borderline lms
		40-50	lms	10YR44 00				0	0 HR	50		М		Imp 50 gravelly
_	4.4	0.00	-	10/040						7 <u>4</u> 4				
	44	0-28	msl	10YR42 43	10//056 00 0			0	O HR	5				
		28-45	msl		10YR56 00 C		Y	0	0 HR	10		М		Borderline scl
		45-55	scl		10YR58 00 M	00MN00		0	0 HR	5		M		Tending msl
_		55-80	С		75YR58 00 M		Υ		0 HR	5		Р	Υ	
		80-85	С	25Y 51 61	75YR58 00 C		Υ	0	0 HR	30		Р	Υ	Imp 85 gravelly

program: ALCO11 COMPLETE LIST OF PROFILES 30/05/96 WOKINGHAM DLP SH11,13,14

						MOTTLES		- PED		_		STONES	S	STRUCT/	SUBS			
SAN	IPLE	DEPTH	TEXTURE	COLOUR	COL	ABUN	CONT	COL.	GLE	Y >	2 >	6 LITH	TOT	CONSIST	STR PO	R IMP SP	L CALC	
-																		
	45	0-30	msl	10YR42 00								0 HR	5					
		30-60	msl	10YR63 00				00MN00				0 HR	15		М			
		60-90	msl	10YR63 00				OOMNOO				0 HR	25		M			Very moist
_		90-120	scl	25Y 62 00	75YR5	6 00 M			Y	′	0	0 HR	5		Р	Υ		Heavy scl
											^	0.110	-					
	46	0-10	mzcl	10YR42 00					γ,			0 HR	5			,	,	
_		10-20	hzc1	10YR62 00				0014100	۷ ۵۵			0 HR	5		P	Y		Vanue firm
		20-70	С	10YR61 00	/5YK5	6 UU M		00MN00	00 1		0	U	0		Р	1		Very firm
	47	0.20	m=o1	10YR43 00							0	0	0					
_	47	0-20 20-70	mzcl c	10YR43 00	75VD5	Ω ОО М		10YR71	00 \		0		0		Р	١	,	
		20-70	C	101101 00	73113	0 00 11		1011/1	00 1		U	Ü	U					
	48	0-28	ms1	10YR42 00							3	0 HR	10					
	40	28-50	msl	10YR43 44								0 HR	5		М			
		50-60	msl	10YR54 00								0 HR	5		М			
		60-65	lms	10YR54 53								0 HR	50		М			Imp 65 gravelly
	49	0-28	msl	10YR41 42							2	0 HR	10					
		28-38	msl	10YR42 00							0	0 HR	15		M			Borderline lms
		38-65	msl	10YR53 63	10YR5	8 00 M			,	1	0	0 HR	10		М			Borderline lms
_		65-72	msl	25Y 62 00	10YR6	8 00 M			\	1	0	0 HR	50		М			Imp 72 gravelly
	50	0-25	msl	10YR43 00							2	0 HR	8					
_		25-47	msl	10YR53 63	10YR5	6 00 C			,	4	0	0 HR	5		М			
		47-120	С	25Y 63 61	10YR5	M 00 8			,	4	0	0 HR	5		Р)	1	Borderline scl
	51	0-26	msl	10YR42 00							0	0 HR	5					
		26-60	scl	10YR53 52				00MN00	00 \			0 HR	5		М			Borderline msl
		60-120	С	25Y 61 00	10YR6	8 00 M)	Y	0	0 HR	5		Р	,	<i>(</i>	
				40,040,40							•	0 110	-					
	52	0-28	ms1	10YR42 43	40.45			00111100			0	0 HR	5					
		28-55	msl	10YR53 63				00MN00			0	O HR	5		M P	,	,	
		55–100	С	25Y 61 62	TUYKS	8 08 M				Υ	U	0 HR	5		P			
-	53	0-30	msl	10YR42 00							1	0 HR	10					Q 1ms
	33	30-50	msl	10YR63 00		6 00 C		00MN00	00.3			0 HR	30		М			Q IIIIS
		50-75	msl	10YR63 00				00MN00				0 HR	50		M			
_		75–120	hc1	25Y 62 00				0011100				0 HR	10		P	,	1	Very firm
		75-120	iic i	231 02 00	75110	00 11					•	O THE	10					very rrim
	54	0-25	mzc1	10YR42 00							1	0 HR	5					
_		25-50	mzcl	10YR52 00		6 00 C			,	Υ		0 HR	5		М			
		50-80	hzc1	10YR62 00					,	Υ		0 HR	2		Р	,	4	Border c; Imp
																		•
	55	0-25	mzcl	10YR51 00	10YR5	8 00 C			,	Υ	0	0	0					
		25-80	С	10YR61 00	75YR4	16 00 M		00MN00	00	Υ	0	0	0		Р	,	Y	
	56	0-30	msl	10YR42 00							2	0 HR	8					Q stonier as 7P
		30-78	msl	10YR53 00	75YR4	16 00 C		00MN00	00	Υ	0	0 HR	15		М			Q stonier as 7P

----MOTTLES---- PED ----STONES---- STRUCT/ SUBS TEXTURE COLOUR SAMPLE DEPTH COL ABUN CONT COL. GLEY >2 >6 LITH TOT CONSIST STR POR IMP SPL CALC 57 0-28 10YR41 42 5 0 HR 15 28-55 ms1 10YR42 52 0 0 HR 15 M Borderline 1ms 55-65 10YR52 00 lms 0 0 HR 20 M 65-75 lms 10YR63 00 10YR58 00 M 0 0 HR 15 M Very wet 75-90 75YR58 00 75YR58 00 M 0 0 HR 40 М Imp 90 gravelly 58 0-26 ms 1 10YR42 00 0 0 HR 8 26-35 mc1 10YR53 63 10YR66 00 C 0 0 HR М 35-45 hc1 10YR63 53 10YR68 00 C 00MN00 00 Y 0 0 HR 5 P 45-120 c 25Y 63 61 10YR58 00 M Υ 0 0 HR 5 Ρ 59 0-25 ms1 10YR42 00 3 0 HR 10 25-50 10YR54 53 10YR56 00 F ms1 0 0 HR 10 M 50-65 ms1 10YR53 63 10YR58 00 C 00MN00 00 Y 0 0 HR 10 M 65-95 mc1 10YR53 00 10YR58 00 M 00MN00 00 Y 0 0 HR 10 M 95-110 mc1 10YR63 00 10YR68 00 M 0 0 HR 40 M Imp 110 gravelly 60 0-35 msl 10YR42 00 1 0 HR 8 35-70 10YR52 00 10YR56 00 C 0 0 HR 15 M 70-100 hc1 10YR62 00 10YR56 00 C 0 HR 5 Р Y Imp gravly; firm 61 0-15 mc1 10YR43 00 0 0 HR 2 15-30 hc1 10YR53 00 75YR58 00 C Υ 0 0 HR 30 M Stony-prob not spl 30-50 hc1 10YR61 00 75YR46 00 M Υ 0 0 HR 2 P 50-80 10YR61 00 75YR46 00 M 0 0 0 P 62 0-30 mzcl 10YR43 00 0 0 0 30-45 hc1 10YR34 00 0 0 0 M 45-60 hc1 10YR42 00 10YR58 00 C 00MN00 00 Y 0 0 0 P 60-90 10YR42 00 75YR46 00 M 0 0 0 Saturated 63 0-30 ms 1 10YR42 00 6 0 HR 12 30-45 ms1 10YR43 00 0 0 HR 40 Imp 45 gravelly 0-23 ms l 10YR41 42 5 0 HR 12 23-55 ms1 10YR53 63 10YR56 00 C Υ 0 0 HR 15 M 55-90 С 25Y 53 63 10YR58 00 M Y 0 0 HR 10 Y Sandyish 90-120 1cs 10YR53 00 10YR58 00 M 0 0 HR 5 M 0-28 65 ms1 10YR41 42 2 0 HR 10 28-55 ms1 10YR63 62 10YR66 00 C Υ 0 0 HR 5 M 55-85 С 25Y 53 00 10YR58 00 M 0 0 HR 10 P Sandyish 85-120 sc1 25Y 63 00 75YR58 00 M 0 0 HR 5 P Borderline sc 0-25 mc1 10YR42 00 3 0 HR 10 Borderline scl 25-45 10YR44 54 mc1 0 0 HR 15 Border scl, Imp45 67 0-10 fsz1 10YR42 00 0 0 HR 10 Disturbed 10-40 hc1 25Y 62 00 10YR58 00 M 0 0 HR 50 P V wet & gravelly

COMPLETE	L121	UF	PROFILES	30/05/96	WOKINGHAM	DLP	SH11,13,14

						MOTTLES	S PED				-STO	NES	- STRUCT/	SUBS			
	SAMPLE	DEPTH	TEXTURE	COLOUR	COL	ABUN	CONT COL.	GL	ΕY						OR IMP	SPL CALC	
	68	0-30	mcl	10YR43 00						0	0 HI	R 10					Previous survey
		30-55	mc1	10YR52 00			10YR61	00	Υ	0	0 HI	20		M			
		55-70	scl	10YR62 00	75YR5	8 00 C			Υ	0	0 HI	35		M			Light scl; Imp70
		0.20	4	40,4540.00							Service and the						
	69	0-30	msl	10YR43 00						11	0 HI						
		30-60 60-120	ms]	10YR44 00						0	0 HI			М			
-		00-120	msl	10YR44 00						0	0 H	R 45		М			
	70	0-30	msl	10YR42 00						2	0 HI						
		30-35	ms1	10YR63 00	75YR46	6 00 C	00MN00	nn	v		0 H			м			
-		35-120	scl	25Y 62 00			0011100		Y		0 H			M P		Υ	Honey and
					, , , , ,				•	٠	0 111	. 10		Г		1	Heavy scl
	71	0-28	msl	10YR41 42						3	0 HF	₹ 10					
		28-55	msl	10YR53 00	10YR58	3 00 C			Υ		0 HF			М			Borderline scl
		55-65	msl	10YR53 52	10YR58	3 00 C			Υ		0 HF			М			Imp 65 gravelly
																	imp oo graverry
	72	0-40	msl	10YR42 00						1	0 HF	3					
		40-55	msl	10YR53 00	75YR46	5 00 C			Υ	0	O HE	₹ 5		М			
		55-70	hc1	10YR63 00	75YR46	5 00 C	00MN00	00	Υ	0	O HE	10		М			Border mcl; Imp 70
	73	0-25	msl	10YR42 00							3 HF						Borderline msl
		25-38	ms1	10YR44 00							O HE			М			
		38-50	msl	10YR54 00						0	O HE	60		Р			Imp 50 gravelly
-	74	0-28	001	100042.00						•		_					
	/4	28-42	scl	10YR43 00	100000	- 00 -					O HF						Borderline msl
		42-45	scl msl	10YR54 53 10YR64 00	TUYKS	00 F					0 HF			М			
-		42-43	IIIS I	101K04 00						U	O HR	50		М			Imp 45 gravelly
	75	0-30	mc1	10YR43 00						0	O HR	5					Description and a
		30-40	mc1	10YR43 53							O HR			М			Previous survey
_		40-50	mcl	10YR43 53							0 HR			M			Imp 50 gravelly
																	Timp 50 graverry
	76	0-30	msl	10YR42 00						3	O HR	10					
_		30-48	ms1	10YR53 00	75YR58	3 00 C			Υ	0	0 HR	25		М			
		48-68	scl	10YR52 00	75YR56	00 C		13	Υ	0	0 HR	30		М			Coarser sand
		68-100	ms	10YR72 00						0	O HR	20		М			Compact 100, Imp
	77	0-28	msl	10YR42 00							0 HR						
		28-45	scl	10YR44 00	10YR46	56 F					0 HR			М			
		45-50	msl	10YR44 00						0	0 HR	40		М			Imp 50 gravelly
	78	0-28	201	10/042 00						•							
	70	28-42	scl	10YR43 00	100000				_		0 HR						
		42-50	scl msl	10YR44 54	TUYK50	00 C			S		0 HR			М			Slightly gleyed
		72-30	IIIS I	10YR56 00						U	0 HR	50		Р			No gleying apparent
	79	0-30	mc1	10YR43 00						0	0 HR	5					0 1
		30-45	scl	10YR53 52	10YR59	00 C	00MN00	00 \	V		0 HR			М			Q msl
		45-60	hc1	25Y 53 63			00MN00				0 HR			P		Υ	Light scl See 5P - spl
		60-90	С	25Y 62 00			00MN00				0 HR			P		Y	See or - spi

_						OTTLES		חבה			07	-01-0		OTRUGT /	01100		
SAME	l F	DEPTH	TEXTURE	COLOUR					CL E					STRUCT/			
SAITI	LL	DEFIII	ILATURE	COLOUR	COL	ABUN	CONT	COL.	GLE	Y >2	>6	LIIF	1 101	CONSTST	STR POR IM	P SPL CALC	
_ e	10	0-25	mcl	10YR42 00						0	0	HR	2				Day days
		25-50	mc1	10YR52 00		വ വ			Υ			TIIX	0		м		Previous survey
		50-60	hc1	10YR62 00											M		
		60-70							Υ				0		P	Υ	
		00-70	С	10YR62 00	/5YK58	UU M			Υ	0	0		0		Р	Υ	Imp 70 gravelly
8	1	0-30	msl	10YR42 00						0	0	HR	10				
		30-70	scl	10YR61 00		00.0			V								Previous survey
_		30 70	301	TOTKOT OU	731136	00 C			Υ	U	U	HR	30		М		Imp 70 gravelly
8	2	0-28	ms1	10YR42 00						3	0	HR	10				
		28-38	hc1	10YR42 00	75VR46	00 C	(OOMMOO	nn v	0		HR	25		М		0.14-64
_		38-48	hc1	10YR53 00				OOMMOO			0		40		M		Q lighter see3P
				1011100 00	7011110	00 0	`	301 11100	00 1	U	U	TIK	40		М		As above; Imp48
8	3	0-35	msl	10YR42 00						3	0	HR	10				See 1P
_		35-60	scl	10YR54 00						0			25		М		Imp 60 gravelly
										·	·						Thip ou graverry
8	4	0-28	msl	10YR32 00						7	0	HR	15				
		28-40	scl	10YR43 00						0	0	HR	25		М		Tending msl
		40-45	mc1	10YR43 00						0	0		60		P		Imp 45 gravelly
																	imp to graverity
8	5	0-30	msl	10YR43 00						0	0	HR	4				
_		30-70	msl	10YR53 00	75YR58	00 C	1	10YR62	00 Y	0	0		0		М		
		70-80	С	10YR62 00	75YR58	00 C			Υ	0	0		0		Р		Qspl, I80gravelly
																	dab i i 100gi ave i i j
_ 8	6	0-25	msl	10YR31 00						20	5	HR	35				
		25-40	lms	10YR31 00						0	0	HR	60		Р		Imp 40 gravelly
8	7	0-28	mcl	00YR42 00	75YR56	00 C			Υ	0	0	HR	5				Previous survey
	;	28-50	mc1	10YR52 00	75YR56	00 M	(OOMNOO	00 Y	0	0		10		М		Sandyish
		50-70	mc1	10YR52 00	75YR56	00 C			Υ	0	0		40		M		Sandyish; Imp 70
																	oundy 1311, 1111p 70
_ 8	8	0-30	msl	10YR42 00						2	0	HR	8				
		30-40	ms1	10YR53 00						0	0	HR	20		М		
	4	40-50	mc1	10YR53 00						0	0		40		М		Imp 50 gravelly
8	9	0-30	ms1	10YR42 00						3	0	HR	10) Q stonier
		30-50	hc1	10YR52 53						0	0	HR	25		М) and sandier
	ţ	50-75	scl	10YR72 00						0	0	HR	40		М) as Pit 3
~																	,
9	0	0-27	omsl	10YR21 00						16	3	HR	30				Borderline fszl
	2	27-45	lms	10YR62 00	10YR66	00 C			Υ	0			50		Р		Imp 45 gravelly
_						,											imp to graterity
9	1	0-30	mc1	10YR42 00	75YR46	00 C			Υ	0	0	HR	15				Previous survey
	3	30-40	mcl	10YR53 00	75YR56	52 C			Υ	0	0	HR	35		M		Imp 40 gravelly
																	imp to graverry
9	2	0-35	ms1	10YR43 00						0	0	HR	10				Previous survey
	3	35-65	mcl	10YR44 00	75YR46	00 C			S	0	0	HR	5		М		Imp 65 gravelly
																	, , , , , , , , , , , , , , , , , , , ,
9:		0-25	msl	10YR43 00						1	0	HR	5				
	2	25-58	msl	10YR53 00						0	0	HR	2		М		
	Ę	58-68	scl	10YR63 00	10YR58	00 C			Υ	0	0	HR	5		М		Light scl
-	6	58-120	С	10YR62 72	75YR56	00 M			Υ	0	0	HR	10		Р	Υ	

					MOTTLES		DED			_\$T	ONES		STRUCT/	CLIDS		
S	AMPLE	DEPTH	TEXTURE	COLOUR	COL ABUN								Market - Committee - Market -		IMP SPL CALC	
				0020011	002 7,0017	00111	002.	GLLI		-0		1 101	0010101	OTK TOK	THE SEL CALC	
	94	0-25	msl	10YR42 00					2	0	HR	8				
		25-50	hc1	10YR43 00						0		10		М) Prob stonier
		50-72	msl	10YR63 00	75YR58 00 C			Υ				2		М) like Pit 1
_		72-120	С	10YR72 00	75YR56 00 M			Υ	0	0	HR	5		Р	Υ	Firm
	95	0-35	msl	10YR42 00					1	0	HR	5				
		35-60	scl	10YR53 63	75YR56 00 C			Υ	0	0	HR	5		M		Light scl
		60-78	hc1	10YR63 00	75YR56 00 C			Υ	0	0	HR	5		Р	Υ	
		78-95	hc1	10YR63 00	75YR56 00 C			Υ	0	0	HR	40		Р	Υ	Q spl; Impen
	96	0-30	msl	10YR42 00					1	0	HR	8				
		30-40	msl	10YR53 00	10YR58 00 C			Υ	0	0	HR	2		M) Prob stonier
		40-58	ms1	10YR73 00	10YR58 00 C			Υ	0	0	HR	2		М) like Pit 1
_		58-60	С	10YR62 63	75YR56 00 M			Υ	0	0	HR	10		Р		Imp 60 gravelly
	97	0-30	msl	10YR32 00					1	0	HR	5				
-		30-45	msl	10YR53 00	10YR56 00 C			Y	0	0	HR	15		M		
		45-65	scl	10YR63 00	75YR56 00 C			Υ	0	0	HR	25		P	Υ	Border c; Imp
	98	0-30	msl	10YR42 00					3	0	HR	8				
		30-50	ms1	10YR53 64	10YR56 00 C			Υ	0	0	HR	5		М		
		50-75	lms	10YR63 00	75YR68 00 C			Υ	0	0	HR	5		М		
		75-90	С	25Y 52 00	75YR68 00 M			Υ	0	0	HR	5		Р	Υ	
_		90-120	С	25Y 61 00	75YR46 68 M			Υ	0	0	HR	10		Р	Υ	
					1 L ×											
	99	0-35	msl	10YR32 00					3	0	HR	8				Previous survey
		35-60	msl	10YR62 00	75YR58 00 C			Υ	0	0	HR	5		М		
		60-80	msl	05Y 62 00	75YR56 00 M			Υ	0	0	HR	2		М		
		80-120	lms	05Y 62 00	75YR56 00 M			Υ	0	0		0		М		
~	100	0-30	mcl		10YR58 00 C			Υ	0	0 1	HR	2				Previous survey
		30-40	hc1		10YR58 00 M			Υ	0	0 1	HR	2		Р	Υ	Firm
		40-80	С		75YR56 00 M			Υ	0	0 1	HR	2		Р	Υ	Very firm
		80-90	scl	10YR62 00	75YR56 00 M			Υ	0	0 1	HR	15		Р	Υ	Imp 90 gravelly
	101	0-30	ms1	10YR42 00					1	0 1		5				
		30-60	scl	10YR53 00					0	0 1		5		М		Borderline mcl
		60-70	scl	10YR53 00					0	0 1	HR	25		М		Border mcl; Imp 70
			_													
	102	0-25	ms1	10YR42 00					1	0 1		3				
		25-45	scl		10YR58 00 C			Υ	0	0 1		2		М		Borderline msl
		45-60	С	10YR72 00	75YR56 00 M			Υ	0	0 1	HR	10		Р	Υ	Imp 60 gravelly
	100	0.00		10//040 00					_	_						
	103	0-30	ms1	10YR42 00					1	0 1		5				
		30-50	scl	10YR41 00					0	0 1	HR	40		М		Imp 50 gravelly
	104	0.25	ma.1	10VD42 00					•		I.D.	10				
_	104	0-25	msl	10YR42 00	10VDEC 00 0			,,	3			10		11.		
		25-40	msl		10YR56 00 C			Υ	0	0 1		20		М		
		40-50	msl		10YR56 00 C			Y	0	0 1		30		М		
		50-55	msl	TUYR52 53	10YR56 00 C			Υ	0	0 1	HK	40		М		Imp 55 gravelly
_																

					MOTT	EQ	DED			c.	TONE	c	STRUCT/	CLIDC		
	SAMPLE	DEPTH	TEXTURE	COLOUR	COL ABUI			CLEV					000000000000000000000000000000000000000	SUBS STR POR IMP	CDL CALC	
		DEF 111	TEXTORE	OOLOOK	COL ADDI	V CON	I COL.	GLET	>	>0	LII	п Ю	CON2121	SIR PUR IMP	SPL CALC	
~	105	0-30	msl	10YR32 00	<u> </u>				3	٥	HR	10				
		30-45	msl	75YR44 00					0		HR	10		М		
		45-55	ms1	75YR44 00					0		HR	40		M		Imp 55 gravelly
_									·	٠	TIIX	40		- 11		Tillp 55 graverry
	106	0-30	fs1	10YR42 00					0	0	HR	5				Description and annual
		30-70	mc1		75YR56 00	м	00MN00	nn v	0		HR	5		М		Previous survey
		70-90	ms1		75YR58 00		00MN00		0		HR	40		M		Sandyish
					7011100 00	•	00111100	00 1	٠	Ü	TIK	40		п		Imp 90 gravelly
	107	0-30	ms1	10YR42 00					2	n	HR	10				
		30-42	mcl		75YR46 00	С		Υ	0		HR	10		М		Imp. 42
_					7011110 00	Ŭ		•	Ů	٠	1113	10		Ю		Imp 42 gravelly
	108	0-30	ms1	10YR42 00					1	0	HR	5				
		30-45	mc1	10YR44 00					0		HR	5		М		Sandyish
_		45-60	mc1		75YR46 00	С		Υ	0		HR	5		M		Sandyish
		60-80	С		75YR58 00			Y	0		HR	5		P	Υ	BOWN ASSAULT WITH BOWN
					7011100 00				Ü	Ü	TIIX	3			*	Imp 80 gravelly
	109	0-28	msl	10YR42 00					2	0	HR	8				
		28-40	ms1	75YR54 00					0		HR	40		М		Imp 40 gravelly
									٠	·	1111	40		13		Timp 40 graverry
	110	0-25	msl	10YR41 00					2	0	HR	7				
_		25-55	msl		75YR46 00	С		Υ			HR	2		М		
		55-120	lms		75YR58 00			Υ		0		2		M		Waterlogged
									Ĭ	Ĭ		_				Mater logged
	111	0-30	msl	10YR32 00					3	0	HR	10				
		30-40	msl	75YR44 32					0		HR	10		М		
		40-50	lms	75YR44 00					0		HR	40		M		Imp 50 gravelly
																Thip 50 graverry
_	112	0-30	mcl	10YR43 00	75YR56 00	С		Υ	0	0	HR	2				Previous survey
		30-50	mc1	10YR53 00	75YR46 00	С		Υ	0	0		2		М		Sandyish
		50-68	mc1	10YR63 00	75YR58 62	С		Υ	0	0	HR	2		М		Sandyish
_		68-80	hc1	10YR63 00	75YR58 62	С		Υ	0	0	HR	2		М		Tending mcl
		80-100	С	10YR72 00	05YR56 00	М		Υ			HR	5		P	Υ	ronaring mor
		100-110	msl	10YR72 00	05YR56 00	М		Υ	0		HR	15		М		Imp 110 gravelly
																imp ito graveriy
	113	0-25	msl	10YR42 00					1	0	HR	5				
		25-45	mcl	10YR44 00					0		HR	5		М		
		45-65	msl	10YR54 00					0	0		5		М		
		65-75	msl	10YR53 00	10YR68 00	С		Υ				5		M		
		75-120	msl	10YR53 00	75YR68 00	М		Υ		0		2		М		
														100		
_,	114	0-25	mcl	10YR42 00					1	0	HR	5				
		25-45	mcl	10YR53 00	10YR56 00	С		Υ	0	0		5		М		
		45-70	С		75YR68 00			Υ	0		HR	5		P	Υ	Borderline hcl
		70-120	С	10YR52 00	75YR68 61	М		γ	0		HR	2		P	Y	
														₩ 1	200	
	115	0-25	msl	10YR42 00					2	0	HR	10				
		25-40	msl	10YR53 00	10YR56 00	С		Υ	0		HR	30		М		
		40-45	ms1	10YR53 00	10YR58 00	С		Υ	0			40	311	М		Imp 45 gravelly
																_

					M	OTTLES		PED			S1	ONES	S	STRUCT/	SUB	3				
S	AMPLE	DEPTH	TEXTURE	COLOUR	COL	ABUN	CONT	COL.	GLEY	>2	>6	LITH	н тот	CONSIST	STR	POR	IMP :	SPL C	ALC	
_	116	0-30	msl	10YR42 00						2	0	HR	5							
		30-60	lms	10YR53 00	75YR58	00 C			Υ	0	5.00	HR	10		М					
		60-90	msl	10YR52 00	75YR58	00 C			Υ	0	2300	HR	2		М					
_		90-120	ms	25 Y63 00					Y	0		HR	2		М					
	117	0-15	msl	10YR42 00						3	0	HD	10							
		15-40	ms1	25Y 52 51	75VR46	оо м			Υ				10		М					
		40-60	ms1	25Y 52 51					Y	0		HR	20							
		60-120	lms	25Y 51 00					Y	0		HR	5		M					
	118	0-25	msl	10YR42 00						2	0	HR	5							
		25-60	scl	10YR52 62	75YR58	00 C			Υ		0		5		М					Light scl
		60-120	С	10YR61 00	75YR58	00 M	0	OMNOO O	0 Y		0	1000	0		Р			Υ		Ligito 301
	119	0-30	msl	10YR41 00						3	0	HR	8							Light scl
		30-45	scl	10YR52 00	10YR58	00 C			Υ	0	0	HR	25		М					
		45-80	С	25 Y62 00	75YR58	00 M			Υ	0	0	HR	10		Р			Υ		
		80-90	С	25 Y62 00	75YR58	00 M			Υ	0		HR	25		P			Y		Imp 90 gravelly