Chichester District Local Plan
Objector Site OSH11
Land at Bethwines Farm, Fishbourne.
Agricultural Land Classification
ALC Map and Report
November 1995

Resource Planning Team Guildford Statutory Group ADAS Reading ADAS Reference: 4203/168/95 MAFF Reference: EL 42/739 LUPU Commission: 02303

AGRICULTURAL LAND CLASSIFICATION REPORT

CHICHESTER DISTRICT LOCAL PLAN OBJECTOR SITE OSH11: LAND AT BETHWINES FARM, FISHBOURNE.

Introduction

- 1. This report presents the findings of a detailed Agricultural Land Classification (ALC) survey of 10 ha of land to the south of Bethwines Farm at Fishbourne in West Sussex. The survey was carried out during November 1995.
- 2. The survey was commissioned by the Ministry of Agriculture, Fisheries and Food (MAFF) from its Land Use Planning Unit, Reading in connection with the preparation of the Chichester District Local Plan.
- 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, the land on the site comprised winter wheat and set-aside.

Summary

- 5. The findings of the survey are shown on the enclosed ALC map. The map has been drawn at a scale of 1:10000; 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.

Table 1: Area of grades and other land

Grade/Other land	Area (hectares)	% surveyed area				
3a	8.0	80				
3b	2.0	20				
Total site area	10.0	100%				

- 7. The fieldwork was conducted at an average density of 1 boring per hectare. A total of 13 borings and two soil pits were described.
- 8. The majority of the land on the site has been classified as Subgrade 3a, good quality land, with soil wetness as the main limitation. Soil profiles typically comprise stoneless

medium silty clay loam topsoils and upper subsoils which rest upon heavy silty clay loam lower subsoils. Profiles show evidence of a soil wetness problem in the form of gleying from the topsoil. The heavy silty clay loam lower subsoil is poorly structured and slowly permeable, causing a drainage impedance. Such drainage characteristics mean that these soils have a resultant classification of Subgrade 3a. Towards the south of the site, soils tend to comprise heavy silty clay loam topsoils resting directly upon a slowly permeable clay subsoil. The shallower depth to the slowly permeable clay means that drainage is worsened such that a classification of Subgrade 3b, moderate quality land, is appropriate.

FACTORS INFLUENCING ALC GRADE

Climate

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

Table 2: Climatic and altitude data

Factor	Units	Values
Grid reference	N/A	SU 831 052
Altitude	m, AOD	9
Accumulated Temperature	day°C	1540
Average Annual Rainfall	mm	782
Field Capacity Days	days	161
Moisture Deficit, Wheat	mm	117
Moisture Deficit, Potatoes	mm	114

- 10. 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.
- 11. 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.
- 12. The combination of rainfall and temperature at this site means that there is no overall climatic limitation. Local climatic factors such as exposure are also believed not to affect the site. The site is climatically Grade 1.

Site

13. The site is flat, lying at an altitude of approximately 9m AOD. Nowhere on the site does gradient affect land quality. No other site factors such as flooding or microrelief affect the survey area.

Geology and soils

- 14. The most detailed published geological information for the site (BGS, 1972) shows the entire site to be underlain by brickearth.
- 15. The most detailed published soils information (SSGB, 1967) shows all of the site to comprise soils of the deep phase Park Gate series. These are described as 'deep stoneless silty soils affected by groundwater' (SSEW, 1983).

AGRICULTURAL LAND CLASSIFICATION

- 16. 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 1.
- 17. 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.

Subgrade 3a

18. The majority of the agricultural land on the site has been classified as Subgrade 3a, good quality land, with soil wetness as the main limitation. Soil profiles typically comprise slightly stony (1-5% total flints v/v) medium silty clay loam topsoils resting upon similar textured upper subsoils which show signs of a wetness imperfection in the form of gleying or slight gleying. Lower subsoils within this mapping unit tend to comprise stoneless and gleyed heavy silty clay loams. A soil inspection pit (Pit 1) was dug to investigate the nature and cause of the drainage imperfection. At the location of the pit, the heavy silty clay loam lower subsoil was found to be poorly structured with low porosity, and is therefore termed as slowly permeable. Such drainage characteristics equate these soils with Wetness Class III, which in combination with the topsoil texture and the local climatic regime means that a resultant classification of Subgrade 3a is appropriate.

Subgrade 3b

19. Towards the southern edge of the site, soil profiles typically comprise heavy silty clay loam or medium silty clay loam topsoils which rest directly upon clay. On the evidence of a further soil inspection pit (pit 2), the clay was found to poorly structured with low porosity and therefore is slowly permeable. The shallower depth at which the slowly permeable horizon was observed means that drainage restrictions are exacerbated. Such drainage characteristics equate the soils in this area of the site to Wetness Class IV, with a resultant classification of Subgrade 3b due to a significant wetness limitation. Poorly drained wet soils can inhibit plant rooting and development, and may be susceptible to structural damage through trafficking by agricultural machinery or poaching by grazing livestock.

SOURCES OF REFERENCE

British Geological Survey (1972) Sheet No.317, Chichester. 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 Great Britain (1967) Sheets SU70 & SU80, Soils of the West Sussex Coastal Plain. SSGB: Harpenden.

Soil Survey of England and Wales (1983) Soils and their Use in South East England SSEW: Harpenden

APPENDIX I

DESCRIPTION OF THE GRADES AND SUBGRADES

Grade 1: Excellent Quality Agricultural Land

Land with no or very minor limitations to agricultural use. A very wide range of agricultural and horticultural crops can be grown and commonly includes top fruit, soft fruit, salad crops and winter harvested vegetables. Yields are high and less variable than on land of lower quality.

Grade 2: Very Good Quality Agricultural Land

Land with minor limitations which affect crop yield, cultivations or harvesting. A wide range of agricultural or horticultural crops can usually be grown but on some land of this grade there may be reduced flexibility due to difficulties with the production of the more demanding crops such as winter harvested vegetables and arable root crops. The level of yield is generally high but may be lower or more variable than Grade 1 land.

Grade 3: Good to Moderate Quality Land

Land with moderate limitations which affect the choice of crops, the timing and type of cultivation, harvesting or the level of yield. When more demanding crops are grown, yields are generally lower or more variable than on land in Grades 1 and 2.

Subgrade 3a: Good Quality Agricultural Land

Land capable of consistently producing moderate to high yields of a narrow range of arable crops, especially cereals, or moderate yields of a wide range of crops including cereals, grass, oilseed rape, potatoes, sugar beet and the less demanding horticultural crops.

Subgrade 3b: Moderate Quality Agricultural Land

Land capable of producing moderate yields of a narrow range of crops, principally cereals and grass, or lower yields of a wider range of crops or high yields of grass which can be grazed or harvested over most of the year.

Grade 4: Poor Quality Agricultural Land

Land with severe limitations which significantly restrict the range of crops and/or the level of yields. It is mainly suited to grass with occasional arable crops (eg. cereals and forage crops) the yields of which are variable. In moist climates, yields of grass may be moderate to high but there may be difficulties in utilisation. The grade also includes very droughty arable land.

Grade 5: Very Poor Quality Agricultural Land

Land with severe limitations which restrict use to permanent pasture or rough grazing, except for occasional pioneer forage crops.

Urban

Built-up or 'hard' uses with relatively little potential for a return to agriculture including: housing, industry, commerce, education, transport, religious buildings, cemeteries. Also, hard-surfaced sports facilities, permanent caravan sites and vacant land; all types of derelict land, including mineral workings which are only likely to be reclaimed using derelict land grants.

y cray are in the

Non-agricultural

'Soft' uses where most of the land could be returned relatively easily to agriculture, including: private parkland, public open spaces, sports fields, allotments and soft-surfaced areas on airports. Also active mineral workings and refuse tips where restoration conditions to 'soft' after-uses may apply.

Woodland

Includes commercial and non-commercial woodland. A distinction may be made as necessary between farm and non-farm woodland.

Agricultural Buildings

Includes the normal range of agricultural buildings as well as other relatively permanent structures such as glasshouses. Temporary structures (eg. polythene tunnels erected for lambing) may be ignored.

Open Water

Includes lakes, ponds and rivers as map scale permits.

Land Not Surveyed

Agricultural land which has not been surveyed.

Where the land use includes more than one of the above, eg. buildings in large grounds, and where map scale permits, the cover types may be shown separately. Otherwise, the most extensive cover type will be shown.

APPENDIX II

FIELD ASSESSMENT OF SOIL WETNESS CLASS

SOIL WETNESS CLASSIFICATION

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.

Definition of Soil Wetness Classes

Wetness Class	Duration of Waterlogging ¹							
I	The soil profile is not wet within 70 cm depth for more than 30 days in most years. ²							
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.							
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.							

Soils can be allocated to a wetness class on the basis of quantitative data recorded over a period of many years or by the interpretation of soil profile characteristics, site and climatic factors. Adequate quantitative data will rarely be available for ALC surveys and therefore the interpretative method of field assessment is used to identify soil wetness class in the field. The method adopted here is common to ADAS and the SSLRC.

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

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

APPENDIX III

SOIL PIT AND SOIL BORING DESCRIPTIONS

Contents:

Soil Abbreviations - Explanatory Note

Soil Pit Descriptions

Database Printout - Boring Level Information

Database Printout - Horizon Level Information

SOIL PROFILE DESCRIPTIONS: EXPLANATORY NOTE

Soil pit and auger boring information collected during ALC fieldwork is held on a 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.

WHT: Wheat ARA: Arable BAR: Barley CER: Cereals OAT: MZE: Maize Oats BEN: Field Beans BRA: Brassicae OSR: Oilseed rape FCD: Fodder Crops POT: Potatoes SBT: Sugar Beet LIN: Linseed FRT: Soft and Top Fruit FLW: Fallow PGR: Permanent PastureLEY: Ley Grass **RGR**: Rough Grazing Coniferous Woodland DCW: Deciduous Wood SCR: Scrub CFW:

HTH: Heathland BOG: Bog or Marsh FLW: Fallow PLO: Ploughed SAS: Set aside OTH: 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 ClimateAE : AspectEX : ExposureFR : Frost RiskGR : GradientMR : MicroreliefFL : Flood RiskTX : Topsoil TextureDP : Soil DepthCH : ChemicalWE : WetnessWK : Workability

DR: Drought **ER**: Erosion Risk **WD**: Soil Wetness/Droughtiness

ST: Topsoil Stoniness

Soil Pits and Auger Borings

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

S: Sand LS: Loamy Sand SL: Sandy Loam Sandy Silt Loam Clay Loam ZCL: Silty Clay Loam SZL: CL:

Silt Loam SCL: Sandy Clay Loam C: Clav ZL:

OL: Sandy Clay ZC: Silty Clay Organic Loam SC: **P**: Peat SP: Sandy Peat LP: Loamy Peat Peaty Loam PS: **Peaty Sand** MZ: Marine Light Silts PL:

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:

 \mathbf{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)

Coarse (more than 33% of the sand larger than 0.6mm) \mathbf{C} :

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)

- MOTTLE COL: Mottle colour using Munsell notation. 2.
- MOTTLE ABUN: Mottle abundance, expressed as a percentage of the matrix or 3. surface described.

F: few <2% C: common 2-20% M: many 20-40% VM: very many 40% +

MOTTLE CONT: Mottle contrast 4.

> faint - indistinct mottles, evident only on close inspection \mathbf{F} :

D: distinct - mottles are readily seen

prominent - mottling is conspicuous and one of the outstanding features of the **P**: horizon

- **PED. COL**: Ped face colour using Munsell notation. 5.
- GLEY: If the soil horizon is gleyed a 'Y' will appear in this column. If slightly gleyed, 6. an 'S' will appear.
- STONE LITH: Stone Lithology One of the following is used. 7.

all hard rocks and stones HR: **SLST**: soft oolitic or dolimitic limestone

CH: **FSST**: soft, fine grained sandstone

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

soft weathered igneous/metamorphic rock SI:

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 **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

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 appropiate 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

program: ALCO12

LIST OF BORINGS HEADERS 18/12/95 CHICH DLP OSH11 FISHBOUR

page 1

SAMP	LE	ASPECT				WETI	NESS	-WHE	AT-	-P0	TS-	М	. REL	EROSN	FRO	ST	CHEM	ALC	
NO.	GRID REF	USE	GRDNT	GLEY	Y SPL	CLASS	GRADE	AP	MB	AP	MB	DRT	FL00D	(E)	(P	DIST	LIMIT		COMMENTS
1	SU83000540	CER		050	050	3	3A		0		0						WE	3A	
18	SU83200530	WHT		034	056	3	ЗА		0		0	2					WE	ЗА	
2	SUB3100540	CER		036		2	2		0		0	1					WE	2	
2P	SU83000520	SAS		029	029	4	38		0		0						WE	3B	
3	SU83200540	CER		035	065	3	3A		0		0						WE	ЗА	JUSTWC3
4	SU83300540	CER		030	050	3	ЗА		0		0						WE	3 A	
5	SU83000530	CER		\$40	040	3	3A		0		0						WE	3A	SL GLEY 40
6	SU83100530	CER		030	065	3	3A		0		0						WE	ЗА	
7	SU83200530	CER		026	050	3	3A		0		0						WE	3A	
8	SU83300530	CER		024	060	3	ЗА		0		0						WE	ЗА	
9	SU83000520	SAS		028	028	4	3B		0		0						WE	3B	
10	SU83100520	SAS		036	036	4	3B		0		0						WE	3B	
11	SU83200520	CER		030	050	3	ЗА		0		0						WE	3A	
12	SU82600523	SAS		030	030	4	3B		0		0						WE	3B	
13	SU83210517	SAS		030	030	4	3B		0		0						WE	3B	

				M	IOTTLI	E\$	- PED				-ST	ONES-		STRUCT	' SL	BS			
SAMPLE	DEPTH	TEXTURE	COLOUR	COL	ABUN	CONT	COL.	GL	ΕY	>2	>6	LITH	TOT	CONSIST	r st	R PO	OR IM	P SPL	CALC
	0.00	-	057 45 00							_									
ı	0-33 33-50	mzcl	25Y 42 00							0	0	MK	1						
	50-120	hzcl	10YR54 00 10YR63 00	10VD69	71 1	м	OUMMOO	nn '	v	-	-		0		۱ ۲			Υ	
	30-120	11201	101103 00	TOTROC	, , , ,	rı	00/1100	00	•	Ü	٠		٠		,			'	
1P	0-34	mzcl	25Y 42 00							0	0	HR	2						
	34-56	mzcl	10YR63 00	10YR68	71 (С	00MN00	00	γ	0	0		0	MDCSAB	FR N	I			
	56-100	hzc1	75YR52 53	75YR56	62 1	M	00MN00	00	Y	0	0		0	WKCPR	FM F	,	1	Y	
•	0.00		0574 40 00							^	_	116							
2	0-36 36-60		25Y 42 00	100050	. 71	.		,	v		0	пĸ	1						
	60-120		10YR63 00 75YR53 00				nnwunn		Y		-		0		۱ ۱				
	00-120	INZC I	751K35 00	/31 KOC	1 02 1	11	OUMITOU	00	•	Ü	Ü		Ü		ŗ	1			
2P	0-29	hzcl	25Y 53 00	10YR56	00 1	F	00MN00	00		4	0	HR	6						
	29-65	С	10YR52 00	10YR68	3 71 1	М	00MN00	00	Y	0	0	HR	7	WKMAB	FM F	,	1	Υ	
3	0-35	mac 1	25Y 42 00							Λ	0	uD.	2						
3	35-50		10YR62 00	10VP68	2 71 (Ċ		,	Υ		0		0		١	ı			
	50-65	mzcl	75YR53 00				00MN00			-	0		ō						
	65-100		10YR52 63				OOMNOO				0		0		F			Υ	
																		•	
4	0-30	mzcl	10YR43 00							0	0	HR	1						
	30-50	mzcl	10YR52 00	10YR68	3 71 I	M	00MN00	00	Y	0	0		0		١	1			
	50-120	hzc1	10YR63 73	10YR68	3 71 1	M			Υ	0	0		0		F	•		Y	
5	0-25	mzel	25Y 43 00							0	0	HR	1						
	25-40		10YR54 00	COMNOC	00 (F					0		0		N	1			
	40-70	hzc1	10YR54 00	10YR58	3 00 (С	00MN00	00	S	0	0		0		F)		Υ	
	70-120	hzc1	10YR62 00	10YR68	3 71 1	M	00MN00	00	Υ	0	0		0		F	•		Υ	
6	0-30	1	2EV 42 00							٥	^	un	2						
В	30-65		25Y 43 00 10YR62 00	10VD60	71	ч			Υ		0	nĸ	2						
	65-100		75YR53 00				помыло				-		0		, F			γ	
	00 100	11201	7511105 00	7511100	, ,		001 #100	00		Ū	Ŭ		Ū		•			,	
7	0-32	mzcl	25Y 42 00							0	0		0						
	32-50	mzcl	10YR63 00						Y	0	0		0		F	•			
	50-120	hzc1	10YR62 00	10YR58	61 1	M	00MN00	00	Υ	0	0		0		F	•		Y	
8	0-24	mzcl	25Y 43 00							0	0	HR	2						
	24-60	mzc1	75YR53 00	75YR56	62 1	M			Υ	0	o		2		ŀ	1			
	60-120	hzcl	10YR63 00	10YR68	3 00 1	M	00MN00	00	Y	0	0		0		F	•		Y	
•			0514 50 00			_				_	_		_						
9	0-28	hzc1	25Y 53 00						.,		0		5						
	28-70	С	10YR52 63	TUTKOC	9 01 1	М			Υ	U	0	nĸ	3		F	•		Y	
10	0-36	mzcl	25Y 43 00							2	0	HR	4						
	36-70	c	10YR63 00	75YR56	71 !	М	00MN00	00	Y	0	0	HR	2		F)		Y	
11	0-30	mzcl	25Y 43 00							0	0	HD	2						
	30-50	mzcl	10YR52 00	10YR59	63 (С		,	Υ	0	0		0		٨	1			
	50-80	hzc1	10YR63 00				00MN00			0	0		0		,			Υ	
	80-120		75YR53 00				00MN00			ō	-		0					Y	
																		-	

COMPLETE LIST OF PROFILES 18/12/95 CHICH DLP OSH11 FISHBOUR

program: ALC011

page 2

					40TTLES	F	PED			-ST	ONES-		STRUCT/	SUBS		
SAMPLE	DEPTH	TEXTURE	COLOUR	COL	ABUN	CONT C	COL.	GLEY	>2	>6	LITH	TOT	CONSIST	STR POR	IMP SPL CALC	
12	0-30	hzcl	25Y 42 53						0	0	HR	3				
	30-65	С	10YR63 00	10YR68	3 71 M	400	1 NO0	00 Y	0	0	HR	6		p	Y	
13	0-30	mzcl	25Y 53 00						0	0	HR	2				
	30-80	hzcl	10YR63 00	10YR68	3 71 M	100	1000	00 Y	0	0		0		Р	Y	

SOIL PIT DESCRIPTION

Site Name : CHICH DLP OSH11 FISHBOUR Pit Number : 1P

Grid Reference: SU83200530 Average Annual Rainfall: 782 mm

Accumulated Temperature: 1540 degree days

Field Capacity Level : 161 days
Land Use : Wheat
Slope and Aspect : degrees

HORIZON	TEXTURE	COLOUR	STONES >2	TOT.STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC	
0- 34	MZCL	25Y 42 00	0	2	HR						
34- 56	MZCL	10YR63 00	0	0		С	MDCSAB	FR	M		
56-100	HZCL	75YR52 53	0	0		М	WKCPR	FM	Р		

Wetness Grade : 3A Wetness Class : III

Gleying :034 cm

SPL :056 cm

Drought Grade: 2 APW: mm MBW: 0 mm

APP: mm MBP: 0 mm

FINAL ALC GRADE : 3A
MAIN LIMITATION : Wetness

SOIL PIT DESCRIPTION

Site Name: CHICH DLP OSH11 FISHBOUR Pit Number: 2P

Grid Reference: \$U83000520 Average Annual Rainfall: 782 mm

Accumulated Temperature: 1540 degree days

Field Capacity Level : 161 days

Land Use : Set-aside

Slope and Aspect : degrees

HORIZON TEXTURE COLOUR STONES >2 TOT.STONE LITH MOTTLES STRUCTURE CONSIST SUBSTRUCTURE CALC

0- 29 HZCL 25Y 53 00 4 6 HR F

29- 65 C 10YR52 00 0 7 HR M WKMAB FM P

Wetness Grade : 38 Wetness Class : IV

Gleying : 029 cm SPL : 029 cm

Drought Grade: APW: mm MBW: 0 mm

APP: mm MBP: 0 mm

FINAL ALC GRADE : 3B
MAIN LIMITATION : Wetness