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ASHFORD BOROUGH LOCAL PLAN
Objector Site 575 - Kingsnorth,
Ashford, Kent.

Agricultural Land Classification
ALC Map and Report

October 1997

Resource Planning Team
Eastern Region
FRCA Reading

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AGRICULTURAL LAND CLASSIFICATION REPORT

ASHFORD BOROUGH LOCAL PLAN OBJECTORS SITE 575 - KINGSNORTH, KENT.

INTRODUCTION

1. This report presents the findings of a detailed Agricultural Land Classification (ALC) survey of 20.6 ha of land located between Stumble Lane and the Ashford to Hastings railway line, to the east of Kingsnorth, near Ashford in Kent. The survey was carried out during October 1997.
2. The survey was undertaken by the Farming and Rural Conservation Agency (FRCA)¹ on behalf of the Ministry of Agriculture, Fisheries and Food (MAFF), in connection with the Ashford Borough Local Plan. This survey supersedes any previous ALC information for this land.
3. The work was conducted by members of the Resource Planning Team in the Eastern Region of the FRCA. 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 land use on the site comprised permanent grassland. This was being used to graze horses and sheep. The areas mapped as 'Other land' include farm buildings, stables, a horse training arena, an unmetalled track and an open pond.

SUMMARY

5. The findings of the survey are shown on the enclosed ALC map. The map has been drawn at a scale of 1:10,000. It is accurate at this scale but any enlargement would be misleading.
6. The area and proportions of the ALC grades and subgrades on the surveyed land are summarised in Table 1.

Table 1: Area of grades and other land

Grade/Other land	Area (hectares)	% surveyed area	% site area
3a	4.9	24.4	23.8
3b	15.2	75.6	73.8
Other land	0.5	N/A	2.4
Total surveyed area	20.1	100	97.6
Total site area	20.6	-	100

¹ FRCA is an executive agency of MAFF and the Welsh Office

7. The fieldwork was conducted at an average density of approximately 1 boring per hectare of agricultural land. Twenty one borings and two soil pits were described.

8. The agricultural land on this site has been classified as Subgrade 3a (good quality) and Subgrade 3b (moderate quality). The principal limitation to land quality is soil wetness.

9. The majority of the agricultural land at this site has been mapped as Subgrade 3b with Subgrade 3a occurring towards the north east on a slightly elevated area. The soils observed comprise loamy and silty topsoils overlying loamy, silty and clayey subsoils. The clayey subsoil horizons impede soil drainage and occur at moderate and shallow depths in the profile. The relative depth determines the severity of the soil wetness problem and, therefore, the ALC grade. Soil wetness reduces the versatility of the land in terms of access by machinery (e.g. for cultivations or harvesting) and for grazing if damage to the soil is to be avoided. It also has the effect of reducing the level and consistency of yields.

FACTORS INFLUENCING ALC GRADE

Climate

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

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

Table 2: Climatic and altitude data

Factor	Units	Values	
		TR 012 384	TR 016 382
Grid reference	N/A	TR 012 384	TR 016 382
Altitude	m, AOD	40	40
Accumulated Temperature	day°C (Jan-June)	1463	1463
Average Annual Rainfall	mm	716	715
Field Capacity Days	days	148	148
Moisture Deficit, Wheat	mm	122	122
Moisture Deficit, Potatoes	mm	119	119
Overall climatic grade	N/A	Grade 1	Grade 1

12. The climatic criteria are considered first when classifying land as climate can be overriding in the sense that severe limitations will restrict land to low grades irrespective of favourable site or soil conditions.

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

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

Site

15. The site lies at approximately 40m AOD overall. The majority of the site is flat with slight elevations towards the north east. Gradients are slight and are not sufficient to adversely affect land quality. Other site factors such as microrelief and flooding are also not significant.

Geology and soils

16. The published geological information for the site (BGS, 1974) shows the majority of the site to be underlain by Weald Clay with a small area in the south west shown as containing sand within the Weald Clay. Towards the south east of the site alluvial drift deposits are mapped.

17. The most recent published soils information for the site (SSEW, 1983 and 1984) shows it to comprise soils of the Wickham 1 association. These are described as, 'Slowly permeable seasonally waterlogged fine silty over clayey, fine loamy over clayey and clayey soils' (SSEW, 1983). Other published soils information for the site (SSEW, 1980) shows it to comprise soils of the Thorne and Hildenborough series'. These are described as comprising, 'clayey, and loamy or silty over clayey soils in Wealden clays, partly overlain by drift; impeded drainage causing seasonal surface wetness'. These essentially similar descriptions are broadly representative of the soils observed during the survey.

AGRICULTURAL LAND CLASSIFICATION

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

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

Subgrade 3a

20. Land of good quality has been mapped towards the north-east of the site on the higher land. The principal limitation to land quality is soil wetness. The soils are characterised by the soil pit, 2P (see Appendix II).

21. The soils in this area are of a single overall type. They comprise a medium silty clay loam topsoil, overlying similar or slightly heavier (heavy silty clay loam/heavy clay loam) upper subsoils, passing to clay lower subsoils. The majority of the topsoils and all the subsoils were observed to be gleyed. The pit observation, 2P, shows that the upper subsoils were moderately structured and permeable. The clay lower subsoils are weakly developed subangular blocky with low porosity and are therefore slowly permeable. The profiles are commonly stoneless to slightly stony with a maximum of 10% flints by volume occasionally recorded in the upper subsoil. Given the local climate and these imperfectly drained soils

Wetness Class III is appropriate, which, when combined with the moderate workability of the topsoils leads to Subgrade 3a being assigned on the basis of a soil wetness limitation. Soil wetness restricts the versatility of the land by limiting the opportunities for cultivation or grazing without damaging the soil, as well as restricting plant growth and the level and consistency of yields.

Subgrade 3b

22. Land of moderate quality has been mapped across the majority of the agricultural land at this site. The principal limitation in this area is also soil wetness. The soils are characterised by the soil pit observation, 1P (see Appendix II).

23. The soils in this area are also of a single overall type. They comprise a medium to heavy clay loam or medium silty clay loam topsoil overlying poorly structured (coarse prismatic), gleyed and slowly permeable clay at a shallow depth. Occasionally a thin heavy clay loam or heavy silty clay loam upper subsoil horizon was observed. The profiles are commonly stoneless to very slightly stony (2% total flints by volume). Given the local climate, the shallow depth of the slowly permeable horizon is such that Wetness Class IV is appropriate and Subgrade 3b is applied as the topsoils are of a medium to low workability status. The effects of soil wetness are described in para. 21 above. Land shown as Subgrade 3b is less versatile than that classified as Subgrade 3a, such that access is further restricted and yields are likely to be more adversely affected in most years.

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SOURCES OF REFERENCE

British Geological Survey (1974) *Sheet 305/306. Folkestone & Dover. Solid & Drift Edition. 1:50 000 scale.* BGS: London.

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

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Soil Survey of England and Wales (1980) *Soils of Kent. Bulletin No. 9. 1:250 000 Scale.*
SSEW: Harpenden.

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

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SSEW: Harpenden.

APPENDIX I

DESCRIPTIONS OF THE GRADES AND SUBGRADES

Grade 1: Excellent Quality Agricultural Land

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

Grade 2: Very Good Quality Agricultural Land

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

Grade 3: Good to Moderate Quality Land

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

Subgrade 3a: Good Quality Agricultural Land

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

Subgrade 3b: Moderate Quality Agricultural Land

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

Grade 4: Poor Quality Agricultural Land

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

Grade 5: Very Poor Quality Agricultural Land

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

APPENDIX II

SOIL DATA

Contents:

Sample location map

Soil abbreviations - explanatory note

Soil pit descriptions

Soil boring descriptions (boring and horizon levels)

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

- GRID REF:** national 100 km grid square and 8 figure grid reference.
- USE:** Land use at the time of survey. The following abbreviations are used:

ARA: Arable	WHT: Wheat	BAR: Barley
CER: Cereals	OAT: Oats	MZE: Maize
OSR: Oilseed rape	BEN: Field beans	BRA: Brassicae
POT: Potatoes	SBT: Sugar beet	FCD: Fodder crops
LIN: Linseed	FRT: Soft and top fruit	FLW: Fallow
PGR: Permanent pasture	LEY: Ley grass	RGR: Rough grazing
SCR: Scrub	CFW: Coniferous woodland	OTH: Other
DCW: Deciduous woodland	BOG: Bog or marsh	SAS: Set-Aside
HTH: Heathland	HRT: Horticultural crops	PLO: Ploughed
- GRDNT:** Gradient as estimated or measured by a hand-held optical clinometer.
- GLEYSPL:** Depth in centimetres (cm) to gleying and/or slowly permeable layers.
- AP (WHEAT/POTS):** Crop-adjusted available water capacity.
- MB (WHEAT/POTS):** Moisture Balance. (Crop adjusted AP - crop adjusted MD)
- DRT:** Best grade according to soil droughtiness.
- 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		
- LIMIT:** The main limitation to land quality. The following abbreviations are used:

OC: Overall Climate	AE: Aspect	ST: Topsoil Stoniness
FR: Frost Risk	GR: Gradient	MR: Microrelief
FL: Flood Risk	TX: Topsoil Texture	DP: Soil Depth
CH: Chemical	WE: Wetness	WK: Workability
DR: Drought	ER: Erosion Risk	WD: Soil Wetness/Droughtiness
EX: Exposure		

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. **GLEYS:** If the soil horizon is gleyed a 'Y' will appear in this column. If slightly gleyed, an 'S' will appear.
7. **STONE LITH:** Stone Lithology - one of the following is used:

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

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

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

Degree of development	WK : weakly developed	MD : moderately developed
	ST : strongly developed	
Ped size	F : fine	M : medium
	C : 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	FM : firm	EH : extremely hard
VF : very friable	VM : very firm	
FR : friable	EM : extremely 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

SAMPLE NO.	GRID REF	ASPECT USE	--WETNESS--				-WHEAT-		-POTS-		M.REL		EROSN EXP	FROST DIST	CHEM LIMIT	ALC	COMMENTS
			GRDNT	GLEY	SPL	CLASS	GRADE	AP	MB	AP	MB	DRT					
1	TR01003850	PGR		0	30	4	3B		0	0				WE	3B	SEE 1P	
2	TR01103850	PGR		0	39	4	3B		0	0				WE	3B	SEE 1P	
3	TR01203850	PGR		0	45	3	3A	133	11	110	-9	2		WE	3A	SEE 2P	
4	TR01303850	PGR		0	39	4	3B		0	0				WE	3B	SEE 1P	
5	TR01403840	PGR W	1	0	35	4	3B		0	0				WE	3B	SEE 1P	
6	TR01003840	PGR		0	29	4	3B		0	0				WE	3B	SEE 1P	
7	TR01103840	PGR		0	32	4	3B		0	0				WE	3B	SEE 1P	
8	TR01203840	PGR		0	35	4	3B		0	0				WE	3B	SEE 1P	
9	TR01303840	PGR		0	29	4	3B		0	0				WE	3B	SEE 1P	
10	TR01403840	PGR W	1	0	40	4	3B		0	0				WE	3B	SEE 1P	
11	TR01503840	PGR S	1	45		1	1	89	-33	89	-30	3B		DR	3B	IMP 50 2P?	
12	TR01203830	PGR		0	30	4	3B		0	0				WE	3B	SEE 1P	
13	TR01303830	PGR		30	30	4	3B		0	0				WE	3B	SEE 1P	
14	TR01403830	PGR		0	55	3	3A	138	16	115	-4	2		WE	3A	SEE 2P	
15	TR01503830	PGR S	1	30	60	3	3A	144	22	119	0	2		WE	3A	SEE 2P	
16	TR01603830	PGR E	1	30	60	3	3A	139	17	116	-3	2		WE	3A	SEE 2P	
17	TR01403820	PGR		0	30	4	3B		0	0				WE	3B	SEE 1P	
18	TR01503820	PGR		0	28	4	3B		0	0				WE	3B	SEE 1P	
19	TR01603820	PGR		0	55	3	3A	139	17	116	-3	2		WE	3A	SEE 2P	
20	TR01503810	PGR		0	28	4	3B		0	0				WE	3B	SEE 1P	
21	TR01303822	PGR		0	30	4	3B		0	0				WE	3B	SEE 1P	
1P	TR01103840	PGR		0	28	4	3B	103	-19	108	-11	3A		WE	3B	PIT 80	
2P	TR01403830	PGR		24	61	3	3A	146	24	121	2	2		WE	3A	PIT 80 AUG 120	

SAMPLE	DEPTH	TEXTURE	COLOUR	----MOTTLES----- PED			----STONES-----			STRUCT/ CONSIST	SUBS							
				COL	ABUN	CONT	COL.	GLE	>2		>6	LITH	TOT		STR	POR	IMP	SPL
1	0-30	MZCL	25Y 63	10YR58	C			Y	0	0	0							
	30-80	C	05Y 71	10YR58	M	MN		Y	0	0	0	P		Y				PLASTIC FROM 50
2	0-29	MZCL	25Y 53	10YR56	C			Y	0	0	0							
	29-39	HZCL	25Y 63	10YR56	C			Y	0	0	0	M						BORDER MZCL
	39-50	C	25Y 72	10YR58	M	MN		Y	0	0	0	P		Y				
	50-80	ZC	05Y 71	10YR58	M	MN		Y	0	0	0	P		Y				PLASTIC
3	0-35	MZCL	25Y 52	10YR56	C			Y	0	0	HR 2							
	35-45	HCL	05Y 63	10YR58	M	MN		Y	0	0	HR 2	M						DRY
	45-120	C	05Y 71	10YR58	M	MN		Y	0	0	0	P		Y				PLASTIC FROM 80
4	0-39	MZCL	25Y 52	10YR56	C			Y	0	0	0							
	39-65	C	05Y 62	10YR58	M	MN		Y	0	0	0	P		Y				DRY
	65-80	ZC	05Y 71	10YR68	M	MN		Y	0	0	0	P		Y				PLASTIC
5	0-35	MZCL	25Y 53	10YR56	C			Y	0	0	0							
	35-45	C	25Y 63	10YR58	C			Y	0	0	0	P		Y				DRY
	45-80	ZC	05Y 71	10YR68	M	MN		Y	0	0	0	P		Y				PLASTIC
6	0-29	MZCL	25Y 52	10YR56	C			Y	0	0	0							
	29-48	C	05Y 63	10YR58	M	MN		Y	0	0	0	P		Y				DRY
	48-80	ZC	05Y 71	10YR58	M	MN		Y	0	0	0	P		Y				PLASTIC
7	0-32	MZCL	25Y 63	10YR56	C			Y	0	0	0							
	32-40	C	05Y 63	10YR58	C	MN		Y	0	0	0	P		Y				SEE 1P
	40-80	ZC	05Y 71	10YR68	M	MN		Y	0	0	0	P		Y				DRY
8	0-35	MZCL	25Y 52	10YR56	C			Y	0	0	0							
	35-45	C	05Y 63	10YR58	C	MN		Y	0	0	0	P		Y				DRY
	45-80	ZC	05Y 71	10YR68	M			Y	0	0	0	P		Y				PLASTIC
9	0-29	MZCL	25Y 52	10YR56	C			Y	0	0	0							
	29-66	C	25Y 62	10YR58	M	MN		Y	0	0	0	P		Y				DRY
	66-100	ZC	05Y 71	10YR68	M			Y	0	0	0	P		Y				PLASTIC
10	0-40	MZCL	25Y 52	10YR56	C			Y	0	0	0							
	40-60	C	25Y 63	10YR58	M	MN		Y	0	0	0	P		Y				DRY
	60-80	ZC	05Y 71	10YR68	M			Y	0	0	0	P		Y				PLASTIC
11	0-30	MZCL	10YR43 53	10YR56	F	F			0	0	HR 2							
	30-45	MZCL	10YR44 54	10YR56	F	F	MN		0	0	HR 2	M						DRY SOIL
	45-50	MZCL	10YR44 54	10YR58	C	D	MN	Y	0	0	HR 10	M						IMP FLINTS 50
12	0-30	HCL	25Y 42	10YR46	C	D		Y	0	0	0							
	30-65	C	25Y 61 62	10YR68	M	D	MN	Y	0	0	0	P		Y				DRY
	65-90	C	05Y 71	75YR68	M	D	MN	Y	0	0	0	P		Y				PLASTIC

SAMPLE	DEPTH	TEXTURE	COLOUR	----MOTTLES-----			PED COL.	----STONES----			STRUCT/ CONSIST	SUBS			CALC		
				COL	ABUN	CONT		GLY	>2	>6		LITH	TOT	STR		POR	IMP
13	0-30	HCL	25Y 42 52	10YR46	F	F		Y	0	0	0						
	30-70	C	25Y 51	75Y58	M	D	MN	Y	0	0	0		P		Y	PLASTIC	
14	0-30	MZCL	10YR53	10YR46	C	F		Y	0	0	HR	2				SEE 2P	
	30-55	MZCL	25Y 63 64	10YR58	C	D	MN	Y	0	0	HR	2		M			
	55-120	C	05Y 72 62	75YR58	M	D	MN	Y	0	0		0		P		Y	SLIGHTLY SANDY
15	0-30	MZCL	10YR53	10YR56	F	D			0	0	HR	2					
	30-60	MHCL	25Y 63	10YR68	C	D	MN	Y	0	0	HR	2		M			
	60-75	C	05Y 63	10YR58	M	D		Y	0	0		0		P		Y	
	75-120	C	05Y 62	75YR58	M	D	MN	Y	0	0		0		P		Y	SLIGHTLY SANDY
16	0-30	MZCL	10YR42 52	10YR56	F	D			0	0	HR	2					
	30-60	MCL	25Y 51 61	10YR66	M	D	MN	Y	0	0	HR	2		M			
	60-120	C	25Y 61	75YR68	M	D	MN	Y	0	0		0		P		Y	SLIGHTLY SANDY
17	0-30	HCL	25Y 42	10YR46	C	D		Y	0	0	HR	2					
	30-70	C	25Y 71	75YR58 68	M	D	MN	Y	0	0		0		P		Y	PLASTIC
18	0-28	HCL	10YR51	10YR58	C	D		Y	0	0	HR	2					
	28-45	C	25Y 61	75YR56	M	D	MN	Y	0	0	HR	2		P		Y	DRY
	45-80	C	05Y 51	75YR58	M	D		Y	0	0		0		P		Y	PLASTIC
19	0-25	MZCL	10YR51	10YR58	C	D		Y	0	0	HR	2					
	25-55	HZCL	25Y 61 71	10YR58	M	D	MN	Y	0	0	HR	2		M			DRY
	55-120	C	25Y 61	75YR58	M	D	MN	Y	0	0		0		P		Y	PLASTIC FROM 70
20	0-28	HCL	10YR52	10YR56	C	D		Y	0	0	HR	2					
	28-60	C	25Y 51 61	75YR56 58	M	D	MN	Y	0	0	HR	2		P		Y	DRY
	60-90	C	25Y 61	75YR58	M	D	MN	Y	0	0		0		P		Y	PLASTIC
21	0-30	HCL	25Y 42	10YR46	C	D		Y	0	0	HR	2					
	30-50	C	25Y 62	10YR58	M	D	MN	Y	0	0		0		P		Y	
	50-80	C	25Y 62 71	75YR58	M	D		Y	0	0		0		P		Y	PLASTIC

SAMPLE	DEPTH	TEXTURE	COLOUR	----MOTTLES-----			PED	----STONES----			STRUCT/	SUBS	SPL	CALC		
				COL	ABUN	CONT	COL.	GLE	>2	>6	LITH	TOT				CONSIST
1P	0-28	MZCL	25Y 52	75YR56	C			Y	0	0	0					PIT AT BORING 7
	28-46	C	25Y 73	10YR58	C	25Y 63	Y	0	0	0	MDVCPR	FM	P	Y	Y	DRY
	46-80	C	05Y 71	75YR58	M	05Y 72	Y	0	0	0	WKVCPR	FM	P	Y	Y	PLASTIC
2P	0-24	MZCL	25Y 52 42						0	0	HR	2				PIT AT BORING 14
	24-45	MZCL	25Y 53 63	10YR68	C D		Y	0	0	HR	2	MDCSAB	FR	M	N	DRY
	45-61	MZCL	25Y 62 63	10YR58	M D		Y	0	0	HR	2	MDCSAB	FR	M		DRY
	61-120	C	25Y 61	75YR58	M D		Y	0	0	0	WKCSAB	FR	M	Y	Y	CRUMBLY - PLASTI