0201 - 256 - 94

AGRICULTURAL LAND CLASSIFICATION REPORT

LAND AT PEACOCK FARM, BRACKNELL

1. Summary

1.1 ADAS was commissioned by MAFF's Land Use Planning Unit to provide information on land affected by an *ad hoc* planning application.

1.2 The site comprises approximately 120 hectares of land bound to the east by the Southern Industrial area on the outskirts of Bracknell, to the south by Easthampstead Park, to the west by Big Wood copse and to the north by the Berkshire Way. An Agricultural Land Classification (ALC) survey was carried out during November 1994. The survey was undertaken at a detailed level of approximately one boring per hectare. A total of 107 borings and four soil inspection pits were described in accordance with MAFF's revised guidelines and criteria for grading the quality of agricultural land (MAFF, 1988). These guidelines provide a framework for classifying land according to the extent to which its physical or chemical characteristics impose a long term limitation on its use for agriculture.

1.3 The survey work was carried out by the Resource Planning Team of the Guildford Statutory Group of ADAS.

1.4 At the time of survey the agricultural land on the site was a mixture of permanent grass and Set-aside. The railway line, roads and their embankments are mapped as Urban. Non-metalled tracks, allotment gardens and areas of scrub are shown as Non-agricultural. The Woodland mapped comprises mature deciduous trees, and the Agricultural Buildings shown are derelict farm buildings.

1.5 The distribution of grades and subgrades is shown on the attached ALC map and the areas and extent are given in the table below. The map has been drawn at a scale of 1:10,000. It is accurate at this scale, but any enlargement would be misleading.

Table 1 : Distribution of Grades and Subgrades

Grade	Area (ha)	% of Site	% of Agricultural Land
2	9.7	8.1	10.3
3a	52.8	44.1	56.0
3b	31.7	26.5	33.0
Urban	11.2	9.4	100.0 (94.2 ha)
Non-agricultural	4.3	3.6	
Woodland	9.4	7.8	
Agricultural Buildings	0.6	0.5	
Total area of site	119.7	100.0	

1.6 Appendix I gives a general description of the grades, subgrades and land use categories identified in the survey. The main classes are described in terms of the type of limitation that can occur, the typical cropping range and the expected level and consistency of yield.

1.7 Just over one half of the agricultural land surveyed has been classified as Subgrade 3a, good quality. Most of this land is restricted by moderate soil wetness limitations. Medium clay loam topsoils are underlain by permeable medium and heavy clay loam upper subsoils and clay lower subsoils. These lower subsoils are slowly permeable and impede drainage. Consequently, given the topsoil textures and prevailing local climate this land is subject to moderate limitations on the flexibility of cropping, stocking and cultivations. The slightly higher land on Jennett's Hill is restricted by soil droughtiness. Sandy textured soils limit the profile available water for uptake by crop roots, which may result in lowered crop yields and increased risk of drought stress. Land classified as Grade 2, very good quality, is also limited by soil wetness though to a lesser extent than land assigned to Grade 2. Land classified as Subgrade 3b, moderate quality, is also restricted by soil wetness but the presence of clay subsoils directly below the topsoil causes significant drainage impedance.

2. Climate

2.1 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.

2.2 The main parameters used in the assessment of an overall climatic limitation are average annual rainfall, as a measure of overall wetness, and accumulated temperature (degree days Jan-June), as a measure of the relative warmth of a locality.

2.3 A detailed assessment of the prevailing climate was made by interpolation from a 5km gridpoint dataset (Met. Office 1989). The details are given in the table on the next page and these show that there is no overall climatic limitation affecting the site. The crop adjusted soil moisture deficits and field capacity days at this locality are regionally average.

2.4 No local climatic factors such as exposure or frost risk are believed to affect the site.

3. Relief

3.1 Most of the site is flat and lies at approximately 70 to 75m AOD. In the north of the site, the land falls gently through gradients of about 2-3° to lie at approximately 65m AOD along the northern site boundary. In the south east of the site, at Jennett's Hill, and to the east of Bigwood Lodge the land rises gently through gradients of about 2-3° to lie at approximately 80m AOD. Nowhere on the site do gradient or relief impose any limitation to the agricultural land quality.

Table 2 : Climatic Interpolations

Grid Reference	SU847684	SU850679
Altitude (m)	75	80
Accumulated Temperature (degree days, Jan-June)	1437	1431
Average Annual Rainfall (mm)	674	678
Field Capacity (days)	141	142
Moisture Deficit, Wheat (mm)	111	110
Moisture Deficit, Potatoes (mm)	104	103
Overall Climatic Grade	1	1

4. Geology and Soil

4.1 British Geological Survey (1981), Sheet 269, shows the majority of the site to be underlain by London Clay. Two small areas of Bagshot Beds, corresponding with the slightly higher land on the site, are shown at Jennett's Hill and to the east of Bigwood Lodge.

4.2 Soil Survey of England and Wales (1983), Sheet 6, shows the entire site to comprise soils of the Wickham 3 Association. These soils are described as 'slowly permeable seasonally waterlogged fine loamy over clayey and coarse loamy over clayey soils, and similar more permeable soils with slight waterlogging' (SSEW, 1983).

4.3 Detailed field examination found two broad soil types. The most common is that of loamy and clayey soils which are either imperfectly or poorly drained. The second soil type, which occurs over the Bagshot Beds, comprises well drained sandy textured soils.

5. Agricultural Land Classification

5.1 Table 1 provides the details of the area measurements for each grade and the distribution of each grade is shown on the attached ALC map.

5.2 The location of the soil observation points are shown on the attached sample point map.

Grade 2

5.3 A relatively narrow band of very good quality agricultural land occurs on the slightly higher land across the centre of the site. This land is restricted by minor soil wetness, and in parts also by soil droughtiness, limitations. Where the land is limited by soil wetness, profiles typically comprise medium clay loam topsoils over loamy subsoils which sometimes become heavier at depth. Profiles are stoneless to very slightly stony throughout, containing about 0-5% total flints by volume. These profiles are moderately well drained (Wetness Class II), as evidenced by gleying within 40cm depth, as a result of either fluctuating groundwater levels or slowly permeable clay at about 70cm depth. The interaction between these soil

drainage conditions and medium clay loam topsoils with the prevailing local climate acts to impose slight restrictions on the flexibility of cropping, stocking and cultivations.

5.4 Occasionally, this poorly structured clay occurs at shallower depths within the soil profile causing profiles to be imperfectly drained (Wetness Class III). However, lighter topsoil textures (medium sandy loams) means that this land is still eligible to be classified as Grade 2 on the basis of slight soil wetness limitations. This land is also restricted by minor soil droughtiness limitations. In comparison with medium clay loam topsoils, medium sandy loam topsoils retain less soil water available for uptake by crop roots. Consequently, this land may suffer from slightly lower and less consistent yields.

Subgrade 3a

5.5 The majority of agricultural land on this site has been classified as good quality, with the principal limitation being that of soil wetness. Profiles typically comprise medium clay loam topsoils over permeable medium clay loam and, occasionally, heavy clay loam upper subsoils. At approximately 40-65cm these profiles pass into poorly structured clay lower subsoils. The slowly permeable characteristics of this clay results in imperfect drainage (Wetness Class III), resulting in gleying of both the upper and lower subsoils. Such profiles are represented by Pits 2 and 3. The interaction between this soil drainage status with the topsoil textures and local climate results in moderate soil wetness limitations.

5.6 The slightly higher land on the site, corresponding with the areas underlain by Bagshot Beds, is restricted by moderate soil droughtiness limitations caused primarily by sandy textured soils. Profiles typically comprise medium sandy loam topsoils over moderately structured medium sandy loam or well structured loamy medium sand upper subsoils. At approximately 70cm depth these profiles pass into well structured medium sand lower subsoils. Profiles are stoneless to very slightly stony, containing 0-3% total flints by volume, throughout. Such profiles are represented by Pit 4. The interaction between these sandy textured soils with the local climate means that there is insufficient soil water available in the profile for uptake by crop roots. This may reduce the level and consistency of crop yields. However, the sandy nature of these soils is partially offset by the subsoils being well structured, resulting in slightly more soil available water than if they were moderately structured. Consequently this land is classified as Subgrade 3a.

Subgrade 3b

5.7 Land of moderate agricultural quality is generally found in the north of the site. Medium and heavy clay loam topsoils are directly underlain by poorly structured clay subsoils. These subsoils are slowly permeable as evidenced by gleying below, and occasionally within, the topsoil and result in poor drainage conditions (Wetness Class IV). Such profiles are typified by Pit 1. The interaction between these topsoil textures and soil drainage status with the prevailing local climate means that this land is subject to significant restrictions on the flexibility of cropping, stocking and cultivations. Occasionally, where the clay occurs slightly

deeper within the soil profile these soils are slightly better drained (Wetness Class III). However, these profiles have slightly heavier topsoils, heavy clay loams, and thus this land is also subject to significant soil wetness and workability limitations.

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Resource Planning Team
Guildford Statutory Group
ADAS Reading

SOURCES OF REFERENCE

British Geological Survey (1981), Sheet No. 269, Windsor, 1:50,000 Series (solid and drift edition).

MAFF (1988), Agricultural Land Classification of England and Wales : Revised guidelines and criteria for grading the quality of agricultural land.

Meteorological Office (1989), Climatological Data for Agricultural Land Classification.

Soil Survey of England and Wales (1983), Sheet 6, Soils of South East England, 1:250,000 and accompanying legend.

SOIL PIT DESCRIPTION

Site Name : PEACOCK FM, BRACKNELL Pit Number : 1P

Grid Reference: SU84626850 Average Annual Rainfall : 671 mm
Accumulated Temperature : 1441 degree days
Field Capacity Level : 140 days
Land Use : Set-aside
Slope and Aspect : 01 degrees N

HORIZON	TEXTURE	COLOUR	STONES >2	TOT.STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0- 26	HCL	10YR42 00	0	2	HR	C				
26- 60	C	25Y 52 00	0	0		M	MDCAB	FM	P	

Wetness Grade : 3B Wetness Class : IV
Gleying : 0 cm
SPL :026 cm

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

FINAL ALC GRADE : 3B
MAIN LIMITATION : Wetness

SOIL PIT DESCRIPTION

Site Name : PEACOCK FM, BRACKNELL Pit Number : 2P

Grid Reference: SU84586862
Average Annual Rainfall : 671 mm
Accumulated Temperature : 1441 degree days
Field Capacity Level : 140 days
Land Use : Permanent Grass
Slope and Aspect : 01 degrees N

HORIZON	TEXTURE	COLOUR	STONES >2	TOT.STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0- 25	MCL	10YR42 00	0	2	HR	F				
25- 49	MCL	10YR52 00	0	2	HR	M	MDCSAB	FR	M	
49- 65	C	10YR62 00	0	0		M	STCAB	FM	P	

Wetness Grade : 3A
Wetness Class : III
Gleying :025 cm
SPL :049 cm

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

FINAL ALC GRADE : 3A
MAIN LIMITATION : Wetness

SOIL PIT DESCRIPTION

Site Name : PEACOCK FM, BRACKNELL Pit Number : 3P

Grid Reference: SU84266778
Average Annual Rainfall : 671 mm
Accumulated Temperature : 1441 degree days
Field Capacity Level : 140 days
Land Use : Permanent Grass
Slope and Aspect : degrees

HORIZON	TEXTURE	COLOUR	STONES >2	TOT.STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0- 20	MCL	10YR42 00	0	2	HR					
20- 42	MCL	10YR62 00	0	0		M	MDCSAB	FR	M	
42- 60	C	10YR51 00	0	0		M	MDCAB	VM	P	

Wetness Grade : 3A
Wetness Class : III
Gleying :020 cm
SPL :042 cm

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

FINAL ALC GRADE : 3A
MAIN LIMITATION : Wetness

SOIL PIT DESCRIPTION

Site Name : PEACOCK FM, BRACKNELL Pit Number : 4P

Grid Reference: SU85006800
Average Annual Rainfall : 671 mm
Accumulated Temperature : 1441 degree days
Field Capacity Level : 140 days
Land Use : Set-aside
Slope and Aspect : 02 degrees N

HORIZON	TEXTURE	COLOUR	STONES >2	TOT.STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0- 35	MSL	10YR33 00	0	2	HR					
35- 77	LMS	10YR44 00	0	1	HR		MDCSAB	FR	G	
77-120	MS	10YR58 00	0	0			MDCSAB	VF	G	

Wetness Grade : 1
Wetness Class : I
Gleying : cm
SPL : No SPL

Drought Grade : 3A
APW : 109mm MBW : -2 mm
APP : 92 mm MBP : -13 mm

FINAL ALC GRADE : 3A
MAIN LIMITATION : Droughtiness

SAMPLE NO.	GRID REF	USE	ASPECT	GRDNT	GLEY	SPL	--WETNESS-- CLASS	GRADE	-WHEAT- AP	MB	-POTS- AP	MB	M.REL DRT	FLOOD	EXP	DIST	EROSN LIMIT	FROST	CHEM	ALC	COMMENTS
1P	SU84626850	SAS	N	01	0	026	4	3B		0		0							WE	3B	spl 26
2P	SU84586862	PGR	N	01	025	049	3	3A		0		0							WE	3A	spl 49
3P	SU84266778	PGR			020	042	3	3A		0		0							WE	3A	spl 42
4	SU87406870	PGR			028	045	3	3A		0		0							WE	3A	spl 45
4P	SU85006800	SAS	N	02			1	1	109	-2	92	-13	3A						DR	3A	sandy
5	SU84806870	PGR	N	01	033	033	4	3B		0		0							WE	3B	spl 33
9	SU84506860	SAS	N	01	030		2	2	156	45	118	13	1						WE	2	loamy
10	SU84606860	SAS	N	01	030	030	4	3B		0		0							WE	3B	spl 30
11	SU84706860	PGR	N	01	030	060	3	3B		0		0							WE	3B	spl 60
12	SU84806860	PGR	N	01	025	055	3	3A		0		0							WE	3A	spl 55
16	SU84306850	SAS	N	01	020	020	4	3B		0		0							WE	3B	spl 20
17	SU84406850	SAS	N	02	0	018	4	3B		0		0							WE	3B	spl 18
18	SU84506850	SAS	N	01	024	024	4	3B		0		0							WE	3B	spl 24
19	SU84606850	SAS	N	01	030	030	4	30		0		0							WE	3B	spl 30
20	SU84706850	PGR	NE	02	025	060	3	3A		0		0							WE	3A	spl 60
21	SU84806850	PGR	NE	02	025	055	3	3A		0		0							WE	3A	spl 55
22	SU84906850	PGR	E	02	035	035	4	3B		0		0							WE	3B	spl 35
23	SU85006850	PGR	W	01	025	035	4	3B		0		0							WE	3B	spl 35
24	SU85106850	PGR			025	025	4	3B		0		0							WE	3B	spl 25
26	SU84306840	SAS	N	01	030	030	4	3B		0		0							WE	3B	spl 30
27	SU84406840	SAS	N	01	030	060	3	3A		0		0							WE	3A	spl 60
28	SU84506840	SAS	N	01	025	050	3	3A		0		0							WE	3A	spl 50
29	SU84606840	SAS	N	03	025	025	4	3B		0		0							WE	3B	spl 55
30	SU84706840	SAS	N	02	035	035	4	3B		0		0							WE	3B	spl 35
31	SU84806840	PGR	E	01	070	070	2	2	141	30	118	13	1						WE	2	spl 70
32	SU84906840	PGR	E	02	035	035	4	3B		0		0							WE	3B	spl 35
33	SU85006840	PGR			030	040	3	3B		0		0							WE	3B	spl 40
34	SU85106840	PGR	W	01	0	030	4	3B		0		0							WE	3B	spl 30
35	SU84006830	PGR			025	055	3	3A		0		0							WE	3A	spl 55
36	SU84106827	PGR			030		2	1	90	-21	73	-32	3B						DR	3B	sandy
37	SU84306830	PGR	N	01	025	042	3	3A		0		0							WE	3A	spl 42
38	SU84406830	SAS	N	01	025	058	3	3A		0		0							WE	3A	spl 58
39	SU84506830	SAS			060	060	2	1	133	22	108	3	2						DR	2	msl topsoil
40	SU84606830	SAS	N	01	035	050	3	2		0		0							WE	2	msl topsoil
41	SU84706830	SAS			025	050	3	3A		0		0							WE	3A	spl 50
42	SU84396838	SAS	N	01	025	025	4	3B		0		0							WE	3B	spl 25
43	SU84456839	SAS	N	01	025	025	4	3B		0		0							WE	3B	spl 25
46	SU84006820	PGR	N	01	028	028	4	3B		0		0							WE	3B	spl 28
47	SU84106820	PGR	N	01	0	022	4	3B		0		0							WE	3B	spl 22
48	SU84206820	PGR					1	1	109	-2	93	-12	3A						DR	3A	sandy
49	SU84306820	PGR			042	042	3	3A		0		0							WE	3A	spl 42
50	SU84406820	PGR			028	050	3	3A		0		0							WE	3A	spl 50

SAMPLE NO.	GRID REF	USE	ASPECT	GRDNT	GLEY	SPL	--WETNESS-- CLASS	GRADE	-WHEAT- AP	MB	-POTS- AP	MB	M.REL DRT	FLOOD	EROSN EXP	FROST DIST	CHEM LIMIT	ALC	COMMENTS
51	SU84506820	SAS			035	060	3	2	117	6	108	3	2				WD	2	msl topsoil
52	SU84606820	SAS			025	055	3	3A		0		0					WE	3A	spl 55
53	SU84706820	PGR			030	030	4	3B		0		0					WE	3B	spl 30
54	SU84806820	PGR			035	035	4	3B		0		0					WE	3B	spl 35
58	SU84106810	PGR			025	050	3	3A		0		0					WE	3A	spl 50
59	SU84206810	PGR			025		2	2	155	44	117	12	1				WE	2	loamy
60	SU84306810	PGR	S	01	025		2	2	158	47	121	16	1				WE	2	loamy
61	SU84406810	PGR	S	01	050		1	1	155	44	118	13	1					1	loamy
62	SU84506810	SAS			025	045	3	3A		0		0					WE	3A	spl 45
63	SU84606810	SAS			039	048	3	3A		0		0					WE	3A	spl 48
64	SU84706810	SAS			025	050	3	3A		0		0					WE	3A	spl 50
65	SU84806810	SAS			0	028	4	3B		0		0					WE	3B	spl 28
66	SU84906810	SAS	N	02	025	025	4	3B		0		0					WE	3B	spl 25
67	SU85006810	SAS	N	01	025	025	4	3B		0		0					WE	3B	spl 25
68	SU85106810	SAS	N	01	030	070	2	2	139	28	116	11	2				WD	2	spl 70
69	SU85206810	SAS			060		1	1	116	5	86	-19	3A				DR	3A	sandy
70	SU84006800	PGR	NW	01	030	050	3	3A		0		0					WE	3A	spl 50
71	SU84106800	PGR	E	01	026	065	3	2	138	27	105	0	2				WD	2	msl topsoil
72	SU84206800	PGR	E	01	038	045	3	3A		0		0					WE	3A	spl 45
73	SU84306800	PGR	S	01	030	045	3	3A		0		0					WE	3A	spl 45
74	SU84406800	PGR	S	01	028	042	3	3A		0		0					WE	3A	spl 42
75	SU84506800	PGR			025	045	3	3A		0		0					WE	3A	spl 45
76	SU84606800	PGR			025	035	4	3B		0		0					WE	3B	spl 35
77	SU84706800	PGR			025	050	3	3A		0		0					WE	3A	spl 50
78	SU84806800	PGR	S	01			1	1	107	-4	91	-14	3A				DR	3A	sandy
79	SU84906800	SAS	N	03	055	095	1	1	129	18	94	-11	3A				DR	3A	spl 95
80	SU85006800	SAS	N	02			1	1	111	0	94	-11	3A				DR	3A	sandy
81	SU85106800	SAS	N	01			1	1	102	-9	87	-18	3A				DR	3A	sandy
82	SU85206800	SAS	N	01			1	1	102	-9	86	-19	3A				DR	3A	sandy
83	SU83906790	PGR	W	01	085	085	1	1	141	30	114	9	2				DR	2	spl 85
84	SU84006790	PGR	W	01	085		1	1	100	-11	63	-42	3B				DR	3B	sandy
85	SU84106790	PGR	W	01			1	1	118	7	88	-17	3A				DR	3A	sandy
86	SU84206790	PGR	E	01	030	045	3	3A		0		0					WE	3A	spl 45
87	SU84306790	PGR	E	01	030		2	2		0		0					WE	2	loamy
88	SU84406790	PGR	E	01	030	045	3	3A		0		0					WE	3A	spl 45
89	SU84506790	PGR			025	035	4	3B		0		0					WE	3B	spl 35
90	SU84606790	PGR			025	025	4	3B		0		0					WE	3B	spl 25
91	SU84706790	PGR			025	070	2	1	107	-4	86	-19	3A				DR	3A	sandy
93	SU84906790	SAS	N	01	025	045	3	2		0		0					WE	3A	spl 45
94	SU85006790	SAS	S	01	020		2	1	118	7	78	-27	3A				DR	3A	sandy
95	SU85106790	SAS	S	01	075		1	1	123	12	88	-17	3A				DR	3A	sandy
96	SU85206790	SAS	S	01	030		2	1	132	21	88	-17	3A				DR	3A	sandy

SAMPLE NO.	GRID REF	USE	ASPECT	GRDNT	GLEY	SPL	--WETNESS-- CLASS	GRADE	-WHEAT- AP	MB	-POTS- AP	MB	M.REL DRT	FLOOD	EXP	DIST	EROSN LIMIT	FROST	CHEM	ALC	COMMENTS
98	SU84006780	PGR	SW	01	030	030	4	3B		0		0							WE	3B	spl 30
99	SU84106780	PGR	SE	02	030	030	4	3B		0		0							WE	3B	spl 30
100	SU84206780	PGR	SE	02	048	065	2	2	136	25	113	8	7						WD	2	sl gley 30
101	SU84306780	PGR	E	01	025	045	3	3A		0		0							WE	3A	spl 45
102	SU84406780	PGR			025	025	4	3B		0		0							WE	3B	spl 25
103	SU84506780	PGR			030	050	3	3A		0		0							WE	3A	spl 50
104	SU84606780	PGR			025	040	3	3A		0		0							WE	3A	spl 40
105	SU84706780	PGR			025	065	3	3A		0		0							WE	3A	spl 65
106	SU84806780	PGR	S	03			1	1	110	-1	91	-14	3A						DR	3A	sandy
107	SU84906780	PGR	S	03			1	1	112	1	92	-13	3A						DR	3A	sandy
109	SU84106770	PGR	E	01	030	030	4	3B		0		0							WE	3B	spl 30
110	SU84206770	PGR	E	01	025		2	2	155	44	117	12	1						WE	2	loamy
111	SU84306770	PGR			025	055	3	3A		0		0							WE	3A	spl 55
112	SU84406770	PGR			025	040	3	3A		0		0							WE	3A	spl 40
113	SU84506770	PGR			025	035	4	3B		0		0							WE	3B	spl 35
114	SU84606770	PGR			025	055	3	3A		0		0							WE	3A	spl 55
115	SU84706770	PGR			030	070	2	2	141	30	114	9	2						WD	2	spl 70
116	SU84806770	PGR			025	035	4	3B		0		0							WE	3B	spl 35
117	SU84906770	PGR			025	055	3	3A		0		0							WE	3A	spl 55
118	SU85006770	PGR			025	060	3	3A		0		0							WE	3A	spl 60
121	SU84606760	PGR			025	075	2	1	138	27	110	5	2						DR	2	spl 75
122	SU84706760	PGR			025	045	3	3A		0		0							WE	3A	spl 45
123	SU84806760	PGR			025	065	3	3A		0		0							WE	3A	spl 65
124	SU84906760	PGR			025		2	1	94	-17	98	-7	3A						DR	3A	I70 stony
125	SU84506763	PGR			025	055	3	3A		0		0							WE	3A	spl 55
126	SU84606750	PGR			025	060	3	3A		0		0							WE	3A	spl 60
127	SU84706750	PGR			025	055	3	3A		0		0							WE	3A	spl 55

SAMPLE	DEPTH	TEXTURE	COLOUR	MOTTLES COL	MOTTLES ABUN	MOTTLES CONT	PED COL.	GLEY	STONES >2	STONES >6	STONES LITH	STONES TOT	STRUCT/ CONSIST	SUBS STR	SUBS POR	SUBS IMP	SUBS SPL	CALC
1P	0-26	hcl	10YR42 00	75YR56 00	C			Y	0	0	HR	2						
	26-60	c	25Y 52 00	75YR58 00	M			Y	0	0		0	MDCAB	FM	P	Y	Y	
2P	0-25	mcl	10YR42 00	75YR46 00	F				0	0	HR	2						
	25-49	mcl	10YR52 00	10YR56 00	M			Y	0	0	HR	2	MDCSAB	FR	M	Y		
	49-65	c	10YR62 00	75YR68 00	M			Y	0	0		0	STCAB	FM	P	Y	Y	
3P	0-20	mcl	10YR42 00						0	0	HR	2						
	20-42	mcl	10YR62 00	10YR58 00	M			Y	0	0		0	MDCSAB	FR	M	Y		Border hcl
	42-60	c	10YR51 00	75YR58 00	M			Y	0	0		0	MDCAB	VM	P	Y	Y	
4	0-28	mcl	25Y 42 00						0	0		0						
	28-45	hcl	25Y 41 00	75YR46 00	C			Y	0	0		0		M				
	45-65	c	10YR53 00	75YR56 00	M			Y	0	0		0		P			Y	
4P	0-35	msl	10YR33 00						0	0	HR	2						
	35-77	lms	10YR44 00						0	0	HR	1	MDCSAB	FR	G			
	77-120	ms	10YR58 00						0	0		0	MDCSAB	VF	G			
5	0-27	mcl	10YR42 00						0	0	HR	2						
	27-33	hcl	10YR53 00						0	0	HR	2		M				
	33-60	c	10YR52 53	75YR58 68	M			Y	0	0	HR	1		P			Y	
9	0-30	mcl	10YR33 00						0	0		0						
	30-65	hcl	10YR51 00	75YR56 00	C			Y	0	0		0		M				
	65-120	hcl	10YR51 00	75YR56 00	C			Y	0	0		0		M				
10	0-30	mcl	10YR32 00						0	0		0						
	30-60	c	10YR51 00	75YR56 00	C			Y	0	0		0		P			Y	
11	0-30	hcl	10YR32 00						0	0		0						
	30-60	hcl	10YR52 00	10YR68 00	C			Y	0	0		0		M				
	60-80	c	10YR62 00	10YR58 00	C			Y	0	0		0		P			Y	
12	0-25	mcl	10YR32 00						0	0		0						
	25-55	hcl	10YR51 00	10YR58 00	C			Y	0	0		0		M				
	55-80	c	10YR52 00	10YR58 00	C			Y	0	0		0		P			Y	
16	0-20	hcl	10YR42 00	10YR56 00	F				0	0	HR	1						
	20-60	c	25Y 51 00	75YR68 00	M			Y	0	0		0		P			Y	
17	0-18	hcl	10YR42 00	10YR58 00	C			Y	1	0	HR	1						
	18-60	c	25Y 52 00	75YR68 00	M			Y	0	0		0		P			Y	
18	0-24	hcl	10YR42 00						0	0	HR	1						
	24-60	c	25Y 53 00	75YR58 00	M			Y	0	0		0		P			Y	
19	0-30	mcl	10YR33 00						0	0		0						
	30-60	c	10YR51 00	75YR56 00	M			Y	0	0		0		P			Y	

SAMPLE	DEPTH	TEXTURE	COLOUR	----MOTTLES----- COL	ABUN	CONT	PED COL.	GLEY	----STONES---- >2	>6	LITH	TOT	STRUCT/ CONSIST	SUBS STR	POR	IMP	SPL	CALC
20	0-25	mcl	10YR33 00						0	0		0						
	25-60	mcl	10YR52 00	75YR56 00	C			Y	0	0		0		M				
	60-100	c	10YR52 00	10YR58 00	C			Y	0	0		0		P			Y	
21	0-25	mcl	10YR33 00						0	0		0						
	25-55	mcl	10YR52 00	10YR58 00	C			Y	0	0		0		M				
	55-80	c	10YR52 00	75YR56 00	C			Y	0	0		0		P			Y	
22	0-25	mcl	10YR33 00						0	0		0						
	25-35	mcl	10YR44 00						0	0		0		M				
	35-70	c	10YR52 00	75YR56 00	C			Y	0	0		0		P			Y	
23	0-25	mcl	10YR33 00						0	0		0						
	25-35	mcl	10YR52 00	75YR56 00	C			Y	0	0		0		M				
	35-60	c	10YR51 00	10YR58 00	C			Y	0	0		0		P			Y	
24	0-25	hcl	10YR33 00						0	0		0						
	25-70	c	05Y 72 00	10YR58 00	C			Y	0	0		0		P			Y	
26	0-30	mcl	10YR32 00						0	0	HR	1						
	30-80	c	10YR52 00	10YR58 00	C			Y	0	0		0		P			Y	
27	0-30	mcl	10YR32 00						0	0	HR	1						
	30-60	hcl	10YR51 00	05YR56 00	C			Y	0	0		0		M				
	60-80	c	10YR52 00	75YR56 00	C			Y	0	0		0		P			Y	
28	0-25	mcl	10YR32 00						0	0		0						
	25-50	hcl	10YR52 00	10YR58 00	C			Y	0	0		0		M				
	50-80	c	10YR52 00	10YR68 00	C			Y	0	0		0		P			Y	
29	0-25	mcl	10YR33 00						0	0		0						
	25-60	c	10YR52 00	10YR58 00	C			Y	0	0		0		P			Y	
30	0-25	mcl	10YR33 00						0	0	HR	1						
	25-35	mcl	10YR44 00						0	0		0		M				
	35-70	c	10YR51 00	75YR56 00	C			Y	0	0		0		P			Y	
31	0-30	mcl	10YR33 00						0	0		0						
	30-70	mcl	10YR44 00						0	0		0		M				
	70-120	c	10YR62 00	10YR58 00	C			Y	0	0		0		P			Y	
32	0-25	mcl	10YR33 00						0	0	HR	1						
	25-35	hcl	10YR44 00						0	0		0		M				
	35-60	c	05Y 72 00	10YR58 00	C			Y	0	0		0		P			Y	
33	0-30	hcl	10YR33 00						0	0	HR	1						
	30-40	hcl	10YR51 00	75YR56 00	C			Y	0	0		0		M				
	40-70	c	10YR51 00	75YR56 00	C			Y	0	0		0		P			Y	

SAMPLE	DEPTH	TEXTURE	COLOUR	MOTTLES COL	MOTTLES ABUN	MOTTLES CONT	PED COL.	GLEY	STONES >2	STONES >6	STONES LITH	STONES TOT	STRUCT/ CONSIST	SUBS STR	SUBS POR	SUBS IMP	SUBS SPL	SUBS CALC
34	0-30	hcl	10YR51 00	10YR68 00	C			Y	0	0		0						
	30-60	c	05Y 72 00	10YR58 00	C			Y	0	0		0		P			Y	
35	0-25	scl	10YR33 00						0	0		0						
	25-55	lms	10YR53 00	10YR68 00	C			Y	0	0		0		G				
	55-80	c	10YR52 00	75YR56 00	C			Y	0	0		0		P			Y	
36	0-30	msl	10YR33 00						0	0		0						
	30-120	ms	10YR62 00	70YR58 00	C			Y	0	0		0		G				
37	0-25	mcl	10YR42 00						0	0	HR	2						
	25-35	mcl	10YR52 00	10YR58 61	M			Y	0	0	HR	4		M				
	35-42	mcl	10YR52 00	10YR58 61	M			Y	0	0		0		M				
	42-60	c	10YR62 53	75YR58 00	M			Y	0	0		0		P			Y	
38	0-25	mcl	10YR42 00	10YR58 00	F				0	0	HR	2						
	25-58	mcl	10YR52 00	75YR46 00	M			Y	0	0		0		M				
	58-120	c	10YR52 00	75YR58 00	M			Y	0	0		0		P			Y	
39	0-25	msl	10YR33 00						0	0		0						
	25-60	msl	10YR44 00						0	0		0		M				
	60-120	c	10YR52 00	10YR58 00	C			Y	0	0		0		P			Y	
40	0-25	msl	10YR33 00						0	0		0						
	25-35	mcl	10YR44 00						0	0		0		M				
	35-50	mcl	10YR52 00	10YR58 00	C			Y	0	0		0		M				
	50-80	c	10YR52 00	10YR68 00	C			Y	0	0		0		P			Y	
41	0-25	mcl	10YR33 00						0	0	HR	1						
	25-50	mcl	10YR52 00	10YR58 00	C			Y	0	0		0		M				
	50-80	c	10YR51 00	10YR68 00	C			Y	0	0		0		P			Y	
42	0-25	mcl	10YR42 00						0	0	HR	1						
	25-60	c	25Y 51 00	10YR58 00	M			Y	0	0		0		P			Y	
43	0-25	mcl	10YR43 00	10YR58 00	F				0	0	HR	1						
	25-60	c	25Y 62 00	75YR58 00	M			Y	0	0		0		P			Y	
46	0-28	mcl	10YR42 00						0	0		0						
	28-60	c	25Y 62 00	75YR68 00	M			Y	0	0		0		P			Y	
47	0-22	hcl	10YR42 00	10YR58 00	C			Y	0	0	HR	1						
	22-60	c	25Y 61 00	75YR58 00	M			Y	0	0		0		P			Y	
48	0-27	msl	10YR42 00						0	0	HR	3						
	27-50	msl	10YR54 00						0	0	HR	3		M				
	50-60	lms	10YR63 00						0	0	HR	3		G				
	60-120	ms	10YR73 00						0	0		0		G				

SAMPLE	DEPTH	TEXTURE	COLOUR	----MOTTLES----- COL	ABUN	CONT	PED COL.	GLEY	----STONES---- >2	>6	LITH	TOT	STRUCT/ CONSIST	SUBS STR	POR	IMP	SPL	CALC
49	0-28	mcl	10YR42 00						0	0	HR	2						
	28-42	mcl	10YR53 00	10YR58 00	F				0	0	HR	2		M				
	42-60	c	10YR62 00	10YR58 00	M			Y	0	0		0		P			Y	
50	0-28	mcl	10YR42 00						0	0	HR	2						
	28-50	mcl	10YR53 00	10YR56 00	M			Y	0	0	HR	2		M				
	50-70	c	25Y 52 00	10YR58 00	M			Y	0	0		0		P			Y	
51	0-25	msl	10YR33 00						0	0	HR	1						
	25-35	msl	10YR54 00						0	0	HR	1		M				
	35-60	mcl	10YR52 00	75YR56 00	C			Y	0	0	HR	5		M				
	60-100	c	10YR52 00	10YR58 00	C			Y	0	0		0		P			Y	
52	0-25	mcl	10YR33 00						0	0	HR	1						
	25-55	hcl	10YR62 00	75YR56 00	C			Y	0	0		0		M				
	55-80	c	10YR52 00	10YR58 00	C			Y	0	0		0		P			Y	
53	0-30	mcl	10YR33 00						0	0		0						
	30-70	c.	05Y 72 00	75YR56 00	C			Y	0	0		0		P			Y	
54	0-25	mcl	10YR33 00						0	0	HR	1						
	25-35	mcl	10YR54 00						0	0		0		M				
	35-70	c	05Y 72 00	10YR58 00	C			Y	0	0		0		P			Y	
58	0-25	mcl	10YR33 00						0	0		0						
	25-50	hcl	10YR52 00	10YR68 00	C			Y	0	0		0		M				
	50-80	c	10YR52 00	10YR58 00	C			Y	0	0		0		P			Y	
59	0-25	mcl	10YR33 00						0	0	HR	1						
	25-55	mcl	10YR52 00	75YR56 00	C			Y	0	0		0		M				
	55-120	hcl	10YR52 00	10YR58 00	C			Y	0	0		0		M				
60	0-25	mcl	10YR32 00						0	0	HR	2						
	25-75	mszl	10YR62 00	10YR68 00	C			Y	0	0		0		M				
	75-120	hcl	10YR62 00	10YR68 00	C			Y	0	0	HR	3		M				
61	0-30	mcl	10YR32 00						0	0		0						
	30-50	mcl	10YR33 00						0	0		0		M				
	50-70	mcl	10YR51 00	10YR68 00	C			Y	0	0		0		M				
	70-120	mcl	10YR62 00	10YR68 00	C			Y	0	0	HR	3		M				
62	0-25	mcl	10YR33 00						0	0		0						
	25-45	hcl	10YR62 00	10YR58 00	C			Y	0	0	HR	2		M				
	45-80	c	10YR52 00	10YR58 00	C			Y	0	0		0		P			Y	
63	0-27	mcl	10YR42 00						0	0	HR	2						
	27-39	mcl	10YR43 00						0	0	HR	2		M				
	39-48	mcl	10YR51 00	75YR46 00	C			Y	0	0	HR	2		M				
	48-65	c	25Y 61 00	75YR68 58	M			Y	0	0		0		P			Y	

SAMPLE	DEPTH	TEXTURE	COLOUR	MOTTLES COL	MOTTLES ABUN	MOTTLES CONT	PED COL.	GLEY	STONES >2	STONES >6	STONES LITH	STONES TOT	STRUCT/ CONSIST	SUBS STR	SUBS POR	SUBS IMP	SUBS SPL	SUBS CALC	
64	0-25	mcl	10YR32 00						0	0		0							
	25-50	hcl	10YR52 00	10YR58 00	C			Y	0	0		0		M					
	50-80	c	10YR52 00	10YR58 00	C			Y	0	0		0		P			Y		
65	0-28	mcl	10YR42 00	75YR46 00	C			Y	0	0	HR	2							
	28-55	c	25Y 61 00	75YR58 00	M			Y	0	0		0		P			Y		
66	0-25	mcl	10YR32 00						0	0	HR	1							
	25-70	c	10YR52 00	10YR58 00	C			Y	0	0		0		P			Y		
67	0-25	mcl	10YR32 00						0	0		0							
	25-70	c	05Y 72 00	10YR58 00	C			Y	0	0		0		P			Y		
68	0-30	mcl	10YR32 00						0	0	HR	3							
	30-70	mcl	10YR52 00	10YR58 00	C			Y	0	0	HR	1		M					
	70-120	c	05Y 72 00	10YR58 00	C			Y	0	0		0		P			Y		
69	0-30	msl	10YR32 00						0	0	HR	3							
	30-60	lms	10YR44 00						0	0	HR	5		G					
	60-120	lms	05Y 72 00	10YR58 00	C			Y	0	0	HR	5		G					
70	0-30	mcl	10YR42 32						0	0	HR	4							
	30-50	mcl	10YR53 54	10YR56 00	C			Y	0	0	HR	4		M					
	50-70	c	10YR62 00	75YR68 00	M			Y	0	0		0		P			Y		
71	0-26	msl	10YR42 00						0	0	HR	4							
	26-65	msl	10YR52 53	10YR56 00	M			Y	0	0	HR	4		M					
	65-100	c	25Y 61 63	10YR58 00	M			Y	0	0		0		P			Y		Sand lenses
	100-120	scl	10YR53 00	10YR58 00	M			Y	0	0		0		M					
72	0-29	mcl	10YR42 00						0	0	HR	1							
	29-38	mcl	10YR53 00						0	0	HR	1		M					
	38-45	mcl	10YR52 00	10YR58 00	M			Y	0	0		0		M					
	45-65	c	10YR52 00	10YR58 00	M			Y	0	0		0		P			Y		
73	0-30	mcl	10YR43 00						0	0	HR	4							
	30-45	mcl	10YR61 00	75YR58 00	M			Y	0	0	HR	6		M					
	45-65	c	10YR61 00	75YR58 68	M			Y	0	0		0		P			Y		
74	0-28	mzcl	10YR32 00						0	0	HR	4							
	28-42	mcl	10YR53 00	75YR46 51	M			Y	0	0	HR	8		M					
	42-60	c	25Y 61 00	10YR58 00	M			Y	0	0		0		P			Y		
75	0-25	mcl	10YR33 00						0	0		0							
	25-45	mcl	10YR52 00	10YR58 00	C			Y	0	0		0		M					
	45-80	c	10YR52 00	10YR68 00	C			Y	0	0		0		P			Y		
76	0-25	mcl	10YR33 00						0	0		0							
	25-35	mcl	10YR52 00	10YR58 00	C			Y	0	0		0		M					
	35-70	c	10YR52 00	10YR68 00	C			Y	0	0		0		P			Y		

SAMPLE	DEPTH	TEXTURE	COLOUR	----MOTTLES----- COL	ABUN	CONT	PED COL.	GLEY	----STONES---- >2	>6	LITH	TOT	STRUCT/ CONSIST	SUBS STR	POR	IMP	SPL	CALC
77	0-25	mcl	10YR33 00						0	0	HR	1						
	25-50	mcl	10YR52 00	10YR58 00	C			Y	0	0		0		M				
	50-70	c	10YR52 00	10YR68 00	C			Y	0	0		0		P			Y	
78	0-35	msl	10YR33 00						0	0	HR	2						
	35-70	lms	10YR44 00						0	0	HR	2		G				
	70-120	ms	10YR62 00	05YR56 00	F				0	0		0		G				
79	0-27	msl	10YR42 00						0	0	HR	2						
	27-55	lms	10YR44 00						0	0	HR	1		G				
	55-80	scl	10YR53 00	10YR58 00	C			Y	0	0		0		M				
	80-95	msl	10YR53 00	10YR58 00	M			Y	0	0		0		M				
	95-120	c	10YR61 00	75YR58 00	M			Y	0	0		0		P			Y	
80	0-30	msl	10YR42 00						0	0	HR	2						
	30-40	msl	10YR42 00						0	0		0		M				
	40-75	lms	10YR44 00						0	0		0		G				
	75-120	ms	10YR66 00						0	0		0		G				
81	0-30	msl	10YR42 00						0	0	HR	3						
	30-70	lms	10YR44 00						0	0	HR	3		G				
	70-120	ms	10YR54 56						0	0		0		G				
82	0-30	msl	10YR42 00						0	0	HR	3						
	30-70	lms	10YR54 00						0	0	HR	5		G				
	70-120	ms	10YR66 00						0	0		0		G				
83	0-30	mcl	10YR32 00						0	0	HR	1						
	30-85	hcl	10YR44 00						0	0	HR	5		M				
	85-120	c	10YR52 00	10YR58 00	C			Y	0	0	HR	2		P			Y	
84	0-35	lms	10YR32 00						0	0	HR	2						
	35-55	lms	10YR34 00						0	0		0		G				
	55-85	ms	10YR44 00						0	0	HR	3		G				
	85-120	scl	10YR72 00	10YR58 00	C			Y	0	0		0		M				
85	0-30	msl	10YR32 00						0	0	HR	2						
	30-120	lms	10YR34 00						0	0	HR	2		G				
86	0-30	mcl	10YR32 00						0	0		0						
	30-45	mcl	10YR52 00	10YR68 00	C			Y	0	0		0		M				
	45-80	c	10YR52 00	10YR68 00	C			Y	0	0		0		P			Y	
87	0-30	mcl	10YR33 00						0	0		0						
	30-60	mcl	10YR52 00	75YR56 00	C			Y	0	0		0		M				
	60-120	hcl	10YR52 00	10YR68 00	C			Y	0	0		0		M				
88	0-30	mcl	10YR32 00						0	0		0						
	30-45	hcl	10YR51 00	10YR58 00	C			Y	0	0		0		M				
	45-80	c	10YR52 00	10YR58 00	C			Y	0	0		0		P			Y	

SAMPLE	DEPTH	TEXTURE	COLOUR	MOTTLES COL	MOTTLES ABUN	MOTTLES CONT	PED COL.	GLEY	STONES >2	STONES >6	STONES LITH	STONES TOT	STRUCT/ CONSIST	SUBS STR	SUBS POR	SUBS IMP	SUBS SPL	SUBS CALC	
89	0-25	mcl	10YR33 00						0	0	HR	2							
	25-35	hcl	10YR52 00	10YR68 00	C			Y	0	0		0		M					
	35-70	c	10YR52 00	10YR58 00	C			Y	0	0		0		P			Y		
90	0-25	mcl	10YR34 00						0	0		0							
	25-70	c	10YR52 00	10YR68 00	C			Y	0	0		0		P			Y		
91	0-25	msl	10YR33 00						0	0		0							
	25-70	lms	10YR53 00	10YR68 00	C			Y	0	0		0		G					
	70-90	c	10YR52 00	10YR58 00	C			Y	0	0		0		P			Y		
	90-120	ms	10YR72 00						0	0		0		G					
93	0-25	msl	10YR32 00						0	0	HR	3							
	25-45	mcl	10YR53 00	10YR58 00	F			Y	0	0		0		M					
	45-70	c	05Y 72 00	10YR58 00	C			Y	0	0		0		P			Y		
94	0-20	lms	10YR32 00						0	0	HR	5							
	20-50	lms	10YR53 00	10YR58 00	C			Y	0	0		0		G					
	50-120	scl	05Y 72 00	10YR58 00	C			Y	0	0	HR	1		M					
95	0-30	msl	10YR32 00						0	0	HR	3							
	30-75	lms	10YR58 00						0	0		0		G					
	75-90	ms	10YR53 00	10YR58 00	C			Y	0	0		0		G					
	90-120	scl	05Y 72 00	10YR58 00	C			Y	0	0		0		M					
96	0-30	msl	10YR32 00						0	0	HR	2							
	30-75	lms	10YR53 00	10YR58 00	C			Y	0	0		0		G					
	75-120	scl	05Y 72 00	75YR56 00	C			Y	0	0		0		M					
98	0-30	mcl	10YR42 00						0	0	HR	4							
	30-40	c	10YR52 00	10YR58 00	M			Y	0	0	HR	4		P			Y		
	40-60	c	10YR52 00	75YR68 00	M			Y	0	0		0		P			Y		
99	0-30	mcl	10YR32 00						0	0	HR	2							
	30-60	c	10YR61 00	75YR68 00	M			Y	0	0		0		P			Y		
100	0-30	mcl	10YR32 00						0	0	HR	4							
	30-48	mcl	10YR54 00	10YR56 00	C			S	0	0	HR	4		M					Sl gleyed
	48-65	mcl	10YR53 00	75YR46 51	M			Y	0	0		0		M					
	65-120	c	10YR51 61	75YR68 00	M			Y	0	0		0		P			Y		
101	0-25	mcl	10YR32 00						0	0		0							
	25-45	mcl	10YR52 00	10YR58 00	C			Y	0	0		0		M					
	45-80	c	10YR52 00	10YR58 00	C			Y	0	0		0		P			Y		
102	0-25	mcl	10YR32 00						0	0	HR	1							
	25-70	c	10YR52 00	10YR68 00	C			Y	0	0		0		P			Y		

SAMPLE	DEPTH	TEXTURE	COLOUR	----MOTTLES----- COL	ABUN	CONT	PED COL.	GLEY	----STONES---- >2	>6	LITH	TOT	STRUCT/ CONSIST	SUBS STR	POR	IMP	SPL	CALC
103	0-30	mcl	10YR33 00						0	0	HR	1						
	30-50	mcl	10YR52 00	10YR58 00	C			Y	0	0		0		M				
	50-80	c	10YR52 00	10YR68 00	C			Y	0	0		0		P			Y	
104	0-25	mcl	10YR33 00						0	0		0						
	25-40	mcl	10YR52 00	10YR58 00	C			Y	0	0		0		M				
	40-70	c	10YR52 00	10YR68 00	C			Y	0	0		0		P			Y	
105	0-25	mcl	10YR33 00						0	0		0						
	25-65	mcl	10YR52 00	10YR58 00	C			Y	0	0		0		M				
	65-100	c	10YR52 00	10YR58 00	C			Y	0	0		0		P			Y	
106	0-35	msl	10YR33 00						0	0	HR	2						
	35-80	lms	10YR44 00						0	0	HR	2		G				
	80-120	ms	10YR62 00						0	0		0		G				
107	0-35	msl	10YR33 00						0	0	HR	1						
	35-85	lms	10YR44 00						0	0	HR	2		G				
	85-120	ms	10YR54 00						0	0		0		G				
109	0-30	mcl	10YR31 00						0	0		0						
	30-80	c	10YR52 00	10YR68 00	C			Y	0	0		0		P			Y	
110	0-25	mcl	10YR32 00						0	0		0						
	25-120	hcl	10YR52 00	10YR58 00	C			Y	0	0		0		M				
111	0-25	mcl	10YR33 00						0	0	HR	1						
	25-55	mcl	10YR52 00	10YR58 00	C			Y	0	0		0		M				
	55-80	c	10YR52 00	10YR68 00	C			Y	0	0		0		P			Y	
112	0-25	mcl	10YR33 00						0	0		0						
	25-40	mcl	10YR52 00	10YR68 00	C			Y	0	0		0		M				
	40-80	c	10YR52 00	10YR68 00	C			Y	0	0		0		P			Y	
113	0-25	mcl	10YR33 00						0	0	HR	1						
	25-35	mcl	10YR52 00	10YR58 00	C			Y	0	0		0		M				
	35-70	c	10YR52 00	10YR58 00	C			Y	0	0		0		P			Y	
114	0-25	mcl	10YR33 00						0	0	HR	1						
	25-55	mcl	10YR52 00	10YR58 00	C			Y	0	0	HR	2		M				
	55-80	c	10YR52 00	10YR68 00	C			Y	0	0		0		P			Y	
115	0-30	mcl	10YR33 00						0	0		0						
	30-70	msl	10YR62 00	10YR58 00	C			Y	0	0		0		M				
	70-120	c	10YR52 00	10YR68 00	C			Y	0	0		0		P			Y	
116	0-25	mcl	10YR34 00						0	0		0						
	25-35	mcl	10YR52 00	10YR68 00	C			Y	0	0		0		M				
	35-70	c	10YR52 00	10YR68 00	C			Y	0	0		0		P			Y	

SAMPLE	DEPTH	TEXTURE	COLOUR	----MOTTLES----- COL	ABUN	CONT	PED COL.	GLEY	----STONES---- >2	>6	LITH	TOT	STRUCT/ CONSIST	SUBS STR	POR	IMP	SPL	CALC	
117	0-25	mcl	10YR33 00						0	0		0							
	25-55	mcl	10YR52 00	10YR68 00	C			Y	0	0		0		M					
	55-80	c	10YR52 00	10YR68 00	C			Y	0	0		0		P			Y		
118	0-25	mcl	10YR33 00						0	0		0							
	25-60	mcl	10YR52 00	10YR68 00	C			Y	0	0	HR	2		M					
	60-100	c	05Y 72 00	10YR68 00	C			Y	0	0		0		P			Y		
121	0-25	msl	10YR33 00						0	0		0							
	25-60	msl	10YR53 00	10YR68 00	C			Y	0	0		0		M					
	60-75	scl	10YR52 00	10YR68 00	C			Y	0	0		0		M					
	75-120	c	10YR52 00	10YR68 00	C			Y	0	0		0		P			Y		
122	0-25	mcl	10YR33 00						0	0		0							
	25-45	mcl	10YR52 00	10YR58 00	C			Y	0	0		0		M					
	45-80	c	10YR52 00	10YR68 00	C			Y	0	0		0		P			Y		
123	0-25	mcl	10YR33 00						0	0		0							
	25-65	mcl	10YR62 00	10YR68 00	C			Y	0	0		0		M					
	65-100	c	10YR52 00	75YR56 00	C			Y	0	0		0		P			Y		
124	0-25	msl	10YR33 00						0	0		0							
	25-50	msl	10YR62 00	10YR58 00	C			Y	0	0		0		M					
	50-70	lms	10YR62 00	10YR68 00	C			Y	0	0	HR	5		G					Imp-70 stony
125	0-25	mcl	10YR33 00						0	0		0							
	25-55	mcl	10YR53 00	10YR58 00	F			Y	0	0		0		M					
	55-100	c	10YR52 00	10YR68 00	C			Y	0	0		0		P			Y		
126	0-25	mcl	10YR33 00						0	0	HR	1							
	25-60	mcl	10YR51 00	75YR56 00	C			Y	0	0		0		M					
	60-100	c	10YR52 00	10YR58 00	C			Y	0	0		0		P			Y		
127	0-25	mcl	10YR33 00						0	0	HR	2							
	25-55	mcl	10YR51 00	75YR56 00	C			Y	0	0		0		M					
	55-80	c	10YR52 00	10YR58 00	C			Y	0	0		0		P			Y		