SITE NAME	PROFILE NO	SLOPE AND ASPECT	LAND USE		PARENT MATERIAL
Monkton Heathfield	Pit 1 (ASP 89)	0°	PGR	Av Rainfall 748 mm ATO 1555 FC Days 161 Climatic Grade 1	Keuper marl
JOB NO	DATE	GRID REFERENCE	DESCRIBED BY		
16/94	2/2/94	ST 263 257	PB/GS		

Horizon Number	Lowest Av Depth (cm)	Matrix and Ped Face Colours	Texture	Stoniness Size Shape Type and Field Method	Mottling Abundance Contrast, Size and Colour	Structure Development Size and Shape	Pores and Fissures	Structural Condition	Consistence	Roots Abundance Size and Nature	Calcium Carbonate Content	Mangan Concs etc	Horizon Boundary Distinctness and form
1	25	10YR43	MCL	5% HR Vis	0					MF VF	0	0	Abrupt smooth
2	40	10YR53	C	10% HR Vis	MFFO GM	MCSAB	Good	M	Friable	CF VF	0	0	Gradual smooth
3	80	75YR64	C	10% HR Vis	MDMO GM	MCSAB	>½%	M	Friable	FF VF	0	0	Gradual smooth
4	100+	05YR54	C	10% HR Vis	MFM GM	WCSAB	>½%	M	Friable	0	0	0	

Profile Gleyed From 25

Depth to Slowly Permeable Horizon

Wetness Class 3

Wetness Grade 3a

Available Water		
	Wheat	
	Potatoes	
Moisture Deficit	Wheat	112
	Potatoes	106
Moisture Balance	Wheat	+18
	Potatoes	+2
Droughtiness Grade		2

Final ALC Grade 3a

Main Limiting Factor(s) W

Remarks

SITE NAME	PROFILE NO	SLOPE AND ASPECT	LAND USE		PARENT MATERIAL
Monkton Heathfield	Pit 2 (ASP 125)	0°	PGR	Av Rainfall 748 mm ATO 1555 FC Days 161 Climatic Grade 1	River deposits
JOB NO	DATE	GRID REFERENCE	DESCRIBED BY		
16/94	2/2/94	ST 263254	PB/HLJ		

Horizon Number	Lowest Av Depth (cm)	Matrix and Ped Face Colours	Texture	Stoniness Size Shape Type and Field Method	Mottling Abundance Contrast, Size and Colour	Structure Development Size and Shape	Pores and Fissures	Structural Condition	Consistence	Roots Abundance Size and Nature	Calcium Carbonate Content	Mangan Concs etc	Horizon Boundary Distinctness and form
1	30	75YR43	MCL	2% >2cm HR 9% <2cm HR 11% Total HR sieve + displacement	0					CF M	0	0	Clear smooth
2	70	75YR53	HCL (MSL by PSD)	3% >2cm HR 23% <2cm HR 26% Total HR sieve + displacement	0	WMSAB*	Good	Good	Friable	CF	0	0	Gradual wavy
3	100	75YR64	C	7% HR >2cm 38% HR <2cm 45% HR sieve	CDMOM	WMSAB*	Good	Good	Friable	FF	0	C	Abrupt smooth
4	120+	25YR34	C	0	0		<½%			0	0	0	

Profile Gleyed From 70

Depth to Slowly Permeable Horizon 100

Wetness Class 1

Wetness Grade 1

Available Water	Wheat	135 mm
	Potatoes	100 mm
Moisture Deficit	Wheat	112 mm
	Potatoes	106 mm
Moisture Balance	Wheat	+23 mm
	Potatoes	-6 mm
Droughtiness Grade		2

Final ALC Grade 2

Main Limiting Factor(s) Dr

Remarks

*Too stony for reliable assessment of structure best estimate shown

NL336

SITE NAME	PROFILE NO	SLOPE AND ASPECT	LAND USE		PARENT MATERIAL
Monkton Heathfield	Pit 3 (ASP 174)	4° South	Cereal	Av Rainfall 748 mm ATO 1555 FC Days 161 Climatic Grade 1	Keuper marl
JOB NO	DATE	GRID REFERENCE	DESCRIBED BY		TOPSOIL SAMPLE
16/94	9/2/94	ST 260 249	PB/GMS		

Horizon Number	Lowest Av Depth (cm)	Matrix and Ped Face Colours	Texture	Stoniness Size Shape Type and Field Method	Mottling Abundance Contrast Size and Colour	Structure Development Size and Shape	Pores and Fissures	Structural Condition	Consistence	Roots Abundance Size and Nature	Calcium Carbonate Content	Mangan Concs etc	Horizon Boundary Distinctness and form
1	25	7 5YR42	MCL	2% >2cm HR 5% Total HR Sieved/displ	none		good			Many v fine + medium	none	none	Clear smooth
2	85	5YR44	HCL	18% >2mm HR sieved/ displ	none	MCSAB	Good	Moderate	Friable	Few v fine	none	none	Clear smooth
3	120+	5YR54	C	10% HR Visual	Common faint 5YR46	WMSAB	Low	Good	Friable	Few v fine	none	common	

Profile Gleyed From not gleyed

Depth to Slowly Permeable Horizon no SPL

Wetness Class I

Wetness Grade 1

Available Water Wheat 153 mm

Potatoes 103 mm

Moisture Deficit Wheat 112 mm

Potatoes 106 mm

Moisture Balance Wheat 41 mm

Potatoes 3 mm

Droughtiness Grade 2

Final ALC Grade 2

Main Limiting Factor(s) Dr

Remarks

SITE NAME	PROFILE NO	SLOPE AND ASPECT	LAND USE		PARENT MATERIAL
Monkton Heathfield	Pit 4 (Asp 82)	0°	Cereal	Av Rainfall 748 mm ATO 1555 FC Days 161 Climatic Grade 1	Keuper marl
JOB NO	DATE	GRID REFERENCE	DESCRIBED BY		TOPSOIL SAMPLE
16/94	9/2/94	ST 263 258	PB/GMS		

Horizon Number	Lowest Av Depth (cm)	Matrix and Ped Face Colours	Texture	Stoniness Size Shape Type and Field Method	Mottling Abundance Contrast Size and Colour	Structure Development Size and Shape	Pores and Fissures	Structural Condition	Consistence	Roots Abundance Size and Nature	Calcium Carbonate Content	Mangan Concs etc	Horizon Boundary Distinctness and form
1	25	10YR43	MCL	10% HR visual	none		Good			Many fine few medium	none	none	Abrupt smooth
2	52	10YR54	MCL	10% HR visual	Few faint ochreous	MCSAB	Good	Moderate	Friable	Common fine	none	none	Clear smooth
3	80+	10YR71	C	10% HR visual	Many distinct medium ochreous	WCSAB	Low	Poor	Firm	Few fine	none	common	

Profile Gleyed From 52cm

Depth to Slowly Permeable Horizon 52cm

Wetness Class III

Wetness Grade 3a

Available Water Wheat

Potatoes

Moisture Deficit Wheat

Potatoes

Moisture Balance Wheat

Potatoes

Droughtiness Grade

Final ALC Grade 3a

Main Limiting Factor(s) Wetness

Remarks

SITE NAME	PROFILE NO	SLOPE AND ASPECT	LAND USE		PARENT MATERIAL
Monkton Heathfield	Pit 5 (ASP 32)	2° S	PGR	Av Rainfall 758 mm ATO 1532 FC Days 163 Climatic Grade 1	Keuper marl
JOB NO	DATE	GRID REFERENCE	DESCRIBED BY		
16/94	10/2/94	ST 259 264	PB/GS		

Horizon Number	Lowest Av Depth (cm)	Matrix and Ped Face Colours	Texture	Stoniness Size Shape Type and Field Method	Mottling Abundance Contrast Size and Colour	Structure Development Size and Shape	Pores and Fissures	Structural Condition	Consistence	Roots Abundance Size and Nature	Calcium Carbonate Content	Mangan Concs etc	Horizon Boundary Distinctness and form
1	28	75YR43	MCL	9% HR (sieve)	0					MF VF	0	0	Clear smooth
2	68	75YR54 (matrix) 75YR53 (ped)	HCL	20% HR mainly Mn concs (sieve)	CVF FO GM	MCSAB	Good	Mod	Friable		0	Common Medium	Clear smooth
3	105+	25YR44 (Matrix) 5YR53 (ped face)	C	10% AR (Vis)	FDF OGM	MMAB	<½%	Poor	Firm	0	0	Common fine	

Profile Gleyed From 28

Depth to Slowly Permeable Horizon No SPL

Wetness Class 2

Wetness Grade 2

Available Water	Wheat	122 mm
	Potatoes	100 mm
Moisture Deficit	Wheat	112 mm
	Potatoes	106 mm
Moisture Balance	Wheat	+10 mm
	Potatoes	-6 mm
Droughtiness Grade		2

Final ALC Grade 2

Main Limiting Factor(s) Wk

Remarks

SITE NAME	PROFILE NO	SLOPE AND ASPECT	LAND USE		PARENT MATERIAL
Monkton Heathfield	Pit 6 (ASP 44)	0°	CER	Av Rainfall 748 mm ATO 1555 FC Days 161 Climatic Grade 1	Keuper marl
JOB NO	DATE	GRID REFERENCE	DESCRIBED BY		
16/94	10/2/94	ST 260 263	PB/GS		

Horizon Number	Lowest Av Depth (cm)	Matrix and Ped Face Colours	Texture	Stoniness Size Shape Type and Field Method	Mottling Abundance Contrast Size and Colour	Structure Development Size and Shape	Pores and Fissures	Structural Condition	Consistence	Roots Abundance Size and Nature	Calcium Carbonate Content	Mangan Concs etc	Horizon Boundary Distinctness and form
1	25	75YR43	MCL	5% HR Vis	0					CF	0	0	Clear smooth
2	48	10YR63	HCL	5% HR Vis	CDMOGM	MCSAB	Good	Mod	Firm	CF VF	0	0	Clear smooth
3	65+	10YR53	C	20% HR Vis	MDMOM	WCSAB	<½%	Mod	Friable	FF VF	0	0	

Profile Gleyed From 25

Depth to Slowly Permeable Horizon 48

Wetness Class 3

Wetness Grade 3a

Available Water Wheat

Potatoes

Moisture Deficit Wheat

Potatoes

Moisture Balance Wheat

Potatoes

Droughtiness Grade

Final ALC Grade 3a

Main Limiting Factor(s) W

Remarks

NL336

SITE NAME	PROFILE NO	SLOPE AND ASPECT	LAND USE		PARENT MATERIAL
Monkton Heathfield	Pit 7 (ASP 15)	2° W	PGR	Av Rainfall 758 mm ATO 1532 FC Days 163 Climatic Grade 1	Keuper marl
JOB NO	DATE	GRID REFERENCE	DESCRIBED BY		
16/94	11/2/94	ST 251 265	PB/GS		

Horizon Number	Lowest Av Depth (cm)	Matrix and Ped Face Colours	Texture	Stoniness Size Shape Type and Field Method	Mottling Abundance Contrast Size and Colour	Structure Development Size and Shape	Pores and Fissures	Structural Condition	Consistence	Roots Abundance Size and Nature	Calcium Carbonate Content	Mangan Concs etc	Horizon Boundary Distinctness and form
1	20	75YR42	HCL	0% HR Vis	0					MF VF	0	0	Clear smooth
2	35	75YR54	HCL	0% HR Vis	0	MCSAB	Good	M	Friable	MF VF	0	0	Grad smooth
3	65	75YR54	HCL	0% HR Vis	CFFOM	MCSAB	G	M	Friable	CF VF	0	C	Grad smooth
4	75	75YR54 (ped face 53)	C	0% Vis	Com 75YR58	MM Pr	G	M	Friable	CF VF	0	C	Clear smooth
5	95+	SG761 becomming 25YR36	C	Stones >2cm at top only	CDFOM	MC Pr	0	P	Fv vm	FF	0	C	

Profile Gleyed From 65

Depth to Slowly Permeable Horizon 75

Wetness Class 2

Wetness Grade 3a

Available Water	Wheat	153 mm
	Potatoes	126 mm
Moisture Deficit	Wheat	112 mm
	Potatoes	106 mm
Moisture Balance	Wheat	+41 mm
	Potatoes	+20 mm
Droughtiness Grade		1

Final ALC Grade 3a

Main Limiting Factor(s) Wk

Remarks

SITE NAME	PROFILE NO	SLOPE AND ASPECT	LAND USE		PARENT MATERIAL
Monkton Heathfield	Pit 8 (ASP 57)	0°	PGR	Av Rainfall 758 mm ATO 1532 FC Days 163 Climatic Grade 1	Keuper marl
JOB NO	DATE	GRID REFERENCE	DESCRIBED BY		
16/94	11/2/94	ST 252 261	PB/GS		

Horizon Number	Lowest Av Depth (cm)	Matrix and Ped Face Colours	Texture	Stoniness Size Shape Type and Field Method	Mottling Abundance Contrast, Size and Colour	Structure Development Size and Shape	Pores and Fissures	Structural Condition	Consistence	Roots Abundance Size and Nature	Calcium Carbonate Content	Mangan Concs etc	Horizon Boundary Distinctness and form
1	28	75YR43	HCL	5% HR Vis	0					MF VF	0	0	Clear smooth
2	50	75YR54	HCL	10% HR Vis (5% >2cm)	MFFOM	WCSAB	G	M	Friable	MF VF	0	C	Grad smooth
3	70+	5YR46 (P face 64)	C	0	MDFOM	MM Pr	<½%	P	V Firm	CF VF	0	F	

Profile Gleyed From 50

Depth to Slowly Permeable Horizon 50

Wetness Class 3

Wetness Grade 3b

Available Water Wheat

Potatoes

Moisture Deficit Wheat

Potatoes

Moisture Balance Wheat

Potatoes

Droughtiness Grade 2

Final ALC Grade 3b

Main Limiting Factor(s) W

Remarks

latest

16-94 Taunton Deane Local Plan Monkton Heathfield

	HA	ACRES	% AGRICULTURAL LAND	% TOTAL LAND
ade 1	0 0	0 0	0 0	0 0
ade 2	84 8	209 5	50 0	42 07
ubgrade 3a	75 9	187 5	44 7	38 3
ubgrade 3b	9 0	22 2	5 3	4 5
Grade 4	0 0	0 0	0 0	0 0
Grade 5	0 0	0 0	0 0	0 0
Total Agri Land =	169 7	419 3	100	85 5
Urban	11 4	28 2	-	5 7
Non-Agricultural	2 1	5 2	-	1 1
Woodland	0 0	0 0	-	0 0
Ag-Buildings	1 3	3 3	-	0 7
Open Water	0 0	0 0	-	0 0
Land Not Surveyed	13 9	34 3	-	7 0
Total Site Area =	198 4	490 1	-	100 0