

SITE NAME Feniton		PROFILE NO. Pit 1	SLOPE AND ASPECT 3° S		LAND USE PLO		Av Rainfall: 1506 mm ATO: 904 day °C		PARENT MATERIAL Valley Gravel			
JOB NO. 83/94		DATE 2/8/94	GRID REFERENCE (ASP 55) SY 0940 9875		DESCRIBED BY HLJ		FC Days: 183 Climatic Grade: 1 Exposure Grade: 1		SOIL SAMPLE REFERENCES RPT/HLJ/57, 58, 59			

Horizon No.	Lowest Av. Depth (cm)	Texture	Matrix (Ped Face) Colours	Stoniness: Size, Type, and Field Method	Mottling Abundance, Contrast, Size and Colour	Mangan Concs	Structure: Ped Development Size and Shape	Consistence	Structural Condition	Pores (Fissures)	Roots: Abundance and Size	Calcium Carbonate Content	Horizon Boundary: Distinctness and form
1	30	MSL	7.5YR34	1% HR >2cm 14% HR <2cm 15% HR Total	N	N	-	-	-	-	CF + VF	-	Clear smooth
2	50	MSL	10YR56	1% HR >2cm 14% HR <2cm 15% HR Total (S+D)	N	N	WCAB	Fr	G	G	FVF	-	Abrupt
3	75	LMS	2.5YR58/44	<1% HR Total (S+D)	N	N	WCAB	VF	M	G	N	-	Abrupt wavy
4	110+	MSL	2.5YR58/48	2% HR >2cm 25% HR <2cm 28% Total (S+D)	N	N	WCSAB	VF	M	G	N	-	-

Profile Gleyed From: N/A

Depth to Slowly Permeable Horizon: N/A

Wetness Class: I

Wetness Grade: 1

Available Water Wheat: 121 mm

Potatoes: 87 mm

Moisture Deficit Wheat: 101 mm

Potatoes: 92 mm

Moisture Balance Wheat: 20 mm

Potatoes: -5 mm

Droughtiness Grade: 2 (Calculated to 120 cm)

Final ALC Grade: 2

Main Limiting Factor(s): Droughtiness

Remarks:

SITE NAME		PROFILE NO.	SLOPE AND ASPECT		LAND USE		Av Rainfall: 904 mm		PARENT MATERIAL				
Feniton		Pit 2	2° NE		Ley		ATO: 1506 day °C		Lower Marl				
JOB NO.		DATE	GRID REFERENCE		DESCRIBED BY		FC Days: 183		SOIL SAMPLE REFERENCES				
83/94		2/8/94	(ASP 42) SY 087 989		NAD/HLJ		Climatic Grade: 1		RPT/NAD/146				
							Exposure Grade: 1						

Horizon No.	Lowest Av. Depth (cm)	Texture	Matrix (Ped Face) Colours	Stoniness: Size, Type, and Field Method	Mottling Abundance, Contrast, Size and Colour	Mangan Concs	Structure: Ped Development Size and Shape	Consistence	Structural Condition	Pores (Fissures)	Roots: Abundance and Size	Calcium Carbonate Content	Horizon Boundary: Distinctness and form
1	23	HCL	10YR44	5% HR Total (Vis)	N	N	-	-	-	G	MF+VF	-	Gradual smooth
2	50	HCL	7.5YR34	10% HR >2cm 15% HR <2cm	CDFO	C	MCSAB	Fr	M	G	CF+VF	-	Clear smooth
3	75	HCL	7.5YR53 (7.5YR52)	20% HR >2cm 27% HR <2cm 47% HR Total (S+D)	CDMO	F	MCPPr	Fm	M	G	CF+VF	-	Clear smooth
4	90+	C	05YR46	10% HR Total (Vis)	CDMO 7.5YR68/63	C	M	Fm	P	P	FVF	-	-

Profile Gleyed From: 50
Depth to Slowly Permeable Horizon: 75
Wetness Class: II
Wetness Grade: 3a

NL336i

Available Water Wheat: 115 mm
Potatoes: 90 mm
Moisture Deficit Wheat: 101 mm
Potatoes: 92 mm
Moisture Balance Wheat: 14 mm
Potatoes: -2 mm
Droughtiness Grade: 2 (Calculated to 120 cm)

Final ALC Grade: 3a
Main Limiting Factor(s): Wetness
Remarks:
Topsoil clay content 27%.

SITE NAME	PROFILE NO.	SLOPE AND ASPECT	LAND USE	Av Rainfall: 904 mm	PARENT MATERIAL
Feniton	Pit 3	0°	Cereal	ATO: 1506 day °C	Pebble Beds
JOB NO.	DATE	GRID REFERENCE	DESCRIBED BY	FC Days: 183	SOIL SAMPLE REFERENCES
83/94	2/8/94	SY 087 992 (ASP 21/13)	NAD	Climatic Grade: 1	RPT/NAD/148
				Exposure Grade: 1	

Horizon No.	Lowest Av. Depth (cm)	Texture	Matrix (Ped Face) Colours	Stoniness: Size, Type, and Field Method	Mottling Abundance, Contrast, Size and Colour	Mangan Concs	Structure: Ped Development Size and Shape	Consistence	Structural Condition	Pores (Fissures)	Roots: Abundance and Size	Calcium Carbonate Content	Horizon Boundary: Distinctness and form
1	20	MSL	7.5YR43	18% HR >2cm 19% HR <2cm 37% HR Total (S+D)	N	N	-	-	-	G	CF	-	Clear/wavy
2	120+	MSL	7.5YR44 05YR46	40% HR >2cm 24% HR <2cm 64% HR Total (S+D)	N	N	WCAB	Fr	G	G	FF	N	-

Profile Gleyed From: N/A

Depth to Slowly Permeable Horizon: N/A

Wetness Class: I

Wetness Grade: I

NL336i

Available Water Wheat: 77 mm

Potatoes: 56 mm

Moisture Deficit Wheat: 101 mm

Potatoes: 92 mm

Moisture Balance Wheat: -24 mm

Potatoes: -36 mm

Droughtiness Grade: 3b (Calculated to 120 cm)

Final ALC Grade: 3b

Main Limiting Factor(s): Droughtiness

Remarks:

Side of large farm excavation described. 2m+ showing slight variability in colour. Occ. band of less stones.

SITE NAME Feniton		PROFILE NO. Pit 4	SLOPE AND ASPECT 0°	LAND USE Ley	Av Rainfall: 904 mm ATO: 1506 day °C	PARENT MATERIAL Alluvium	
JOB NO. 83/94		DATE 2/8/94	GRID REFERENCE (ASP 19/29) SY 0835 9905	DESCRIBED BY HLJ/NAD	FC Days: 183 Climatic Grade: 1 Exposure Grade: 1	SOIL SAMPLE REFERENCES RPT/NAD/149	

Horizon No.	Lowest Av. Depth (cm)	Texture	Matrix (Ped Face) Colours	Stoniness: Size, Type, and Field Method	Mottling Abundance, Contrast, Size and Colour	Mangan Concs	Structure: Ped Development Size and Shape	Consistence	Structural Condition	Pores (Fissures)	Roots: Abundance and Size	Calcium Carbonate Content	Horizon Boundary: Distinctness and form
1	25	HCL	7.5YR34	1% HR (Vis)	CDMOM along root channels	-	-	-	-	good	MF	none	clear/ smooth
2	50	MSL	7.5YR54	<1% HR	CDMOM 7.5YR58	Common	MDCAB	Friable	M	good	C Fine	-	Clear/ smooth
3	75	SCL	7.5YR54 + 10YR54	<1% HR	MDMOM	Common	MDCAB	Friable	M	good	F Fine	-	Sharp/ smooth
4	120	MSL	5YR46	15% HR (vis)	10YR53	Few	WDMSAB	Friable	M	good fissured	none	-	

Profile Gleyed From: 25 (slightly G)

Depth to Slowly Permeable Horizon: -

Wetness Class: I

Wetness Grade: 3a

NL336i

Available Water Wheat: 149 mm

Potatoes: 111 mm

Moisture Deficit Wheat: 101 mm

Potatoes: 92 mm

Moisture Balance Wheat: 48 mm

Potatoes: 19 mm

Droughtiness Grade: 1 (Calculated to 120 cm)

Final ALC Grade: 3a

Main Limiting Factor(s): Workability

Remarks:

Compacted layer at bottom of topsoil.
Topsoil clay content 27%