

SITE NAME		PROFILE NO	SLOPE AND ASPECT	LAND USE	Av Rainfall	1020 mm	PARENT MATERIAL	
Stowe Hill Quarry		Pit 2 (ASP 23)	1° S	PGR	ATO	1327 day C	Carboniferous Limestone	
JOB NO		DATE	GRID REFERENCE	DESCRIBED BY	FC Days	217	PSD SAMPLES TAKEN	
48/97		20/18/97	SO 56600 60654	PB/GMS	Climatic Grade	2		
					Exposure Grade			

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	MZCL	05YR43	10% HR (VIS)	None	None	MMGr	Fr		G	MF VF	Y	Abrupt wavy
2	60+	HZCL	25YR43	80% HR	None	None	Thin layers of fractured	soil between stone	(M)	G	CVF overall in cracks	Y	

Profile Gleyed From Not gleyed

Depth to Slowly Permeable Horizon No SPL

Wetness Class I

Wetness Grade 2

Available Water Wheat 57 mm

Potatoes 58 mm

Moisture Deficit Wheat 72 mm

Potatoes 55 mm

Moisture Balance Wheat 15 mm

Potatoes +3 mm

Droughtiness Grade 3b (Calculated to 80 + cm)

Final ALC Grade 3b

Main Limiting Factor(s) Soil depth

Remarks Top of H2 more fractured than below with higher soil content 20 30%

SITE NAME		PROFILE NO	SLOPE AND ASPECT	LAND USE	Av Rainfall	1020 mm	PARENT MATERIAL	
Stowe Hill Quarry		Pit 1 (ASP 8)	2 NW	Peas (harvested)	ATO	1327 day C	Carboniferous Limestone	
JOB NO		DATE	GRID REFERENCE	DESCRIBED BY	FC Days	217	PSD SAMPLES TAKEN	
48/97		20/8/97	SO 5719 0690	PB/GMS	Climatic Grade	2	TS 0 25 cm HZCL (S13 Z58 C29%)	
					Exposure Grade			

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	HZCL	05YR42	<1% HR (VIS)	None	None	MMSAB	Fr		G	CF VF		Abrupt smooth
2	42	HZCL	05YR43 (05YR42)	<1% HR (VIS)	None	None	MCSAB	Fr	Mod	G	CVF		Abrupt wavy
3	80	C	05YR53	70% HR (VIS)	None	None	Soil between	layers of	limestone	G	CVF in soil matrix	Y	

Profile Gleyed From Not gleyed

Depth to Slowly Permeable Horizon No SPL

Wetness Class I

Wetness Grade 3a

Available Water Wheat 78 mm

Potatoes 78 mm

Moisture Deficit Wheat 72 mm

Potatoes 55 mm

Moisture Balance Wheat 6 mm

Potatoes 23 mm

Droughtiness Grade 2 (Calculated to 100 cm)

Final ALC Grade 3a

Main Limiting Factor(s) Wk

Remarks Pit dug to 80 cm
H3 is fractured limestone which is rooted
H1 Texture 29% clay borderline Grade 2

SITE NAME Stowe Hill Quarry		PROFILE NO Pit 3 (ASP 33)		SLOPE AND ASPECT 1 NW		LAND USE Harvested OSR		Av Rainfall 1020 mm ATO 1327 day C		PARENT MATERIAL Limestone shale (clay)		
JOB NO 48/97		DATE 20/8/97		GRID REFERENCE SP 5720 0650		DESCRIBED BY PB/GMS		FC Days 217 Climatic Grade 2 Exposure Grade		PSD SAMPLES TAKEN		

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	19	HZCL	2 5Y52	None	FDFO 10YR58	None	WCSAB	Firm			CVF		Abrupt smooth
2	33	C	5Y51	None	ADMO 10YR58	None	MCPPr	Firm	Poor	Poor	FVF		Gradual smooth
3	50	C	10Y51	None	MDFO 10YR56	None	MCPPr	Firm	Poor	Poor	FVF		Gradual smooth
4	70+	C	10B52	None	CDFO 10YR56	None	WVCPr	Firm	Poor	Poor	FVF		

Profile Gleyed From	19 cm	Available Water	Wheat	125 mm	Final ALC Grade	4
Depth to Slowly Permeable Horizon	19 cm		Potatoes	102 mm		
Wetness Class	IV	Moisture Deficit	Wheat	72 mm	Main Limiting Factor(s)	Wetness
Wetness Grade	4		Potatoes	55 mm		
		Moisture Balance	Wheat	+53 mm	Remarks	
			Potatoes	+47 mm		
		Droughtiness Grade	1	(Calculated to 120 cm)		