

SITE NAME Porthtowan		PROFILE NO. Pit 1	SLOPE AND ASPECT 0°		LAND USE Permanent grass		Av Rainfall: 1021 mm ATO: 1553 deg		PARENT MATERIAL Grampound Grit			
JOB NO. 46/93		DATE 13/8/93	GRID REFERENCE ASP13 SW 698478		DESCRIBED BY GJC/GMS		FC Days: 201 Climatic Grade: 1		TOPSOIL SAMPLE RPT/GC/48			

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	10YR33	MCL	10% HR>2cm 3% HR<2cm 13% HR Total sieved	None					Common fine	None	None	Clear smooth
2	75+	7.5YR46 tending to 7.5YR54 at depth	CSZL	10% HR>2cm 16% HR+ZR <2cm 26% HR Total sieved/displ	Some oxidation around stones near top of horizons no mottling	MCSAB	Low	Moderate	Friable	Few fine and v fine	None	None	

Profile Gleyed From: Not gleyed
Depth to Slowly Permeable Horizon: No SPL
Wetness Class: I
Wetness Grade: 2

Available Water Wheat: 95 mm
Potatoes: 103 mm
Moisture Deficit Wheat: 93 mm
Potatoes: 82 mm
Moisture Balance Wheat: +2
Potatoes: +21
Droughtiness Grade: 3A to 75 cm

Final ALC Grade: 2
Main Limiting Factor(s): Workability

Remarks:
- Pit dug to 75 cm
- Exposed
- Subsoil stones mix of hard quartz and soft slate, more of the latter