

Hart's Lane, Monkerton, Devon

Soil Pit Descriptions

Pit No 1

Topsoil : 0-28 cm
Medium Sandy Loam
5YR43 (Reddish Brown)

Subsoil 1 : 28-77 cm
Medium Sandy Loam
Medium to Coarse Sub-angular Blocky (tending to Angular)
Weakly developed; Friable/Very Friable
"Good" Structural Conditions
> 2% Porosity (> 0.5 mm)
No evidence of wetness

Subsoil 2 : 77-+120 cm
Sandy Clay
2.5 YR44 (tending to 2.5YR54)
Coarse Angular Blocky
< 0.5% Porosity (> 0.5 mm)
Structure and Porosity indicate Slowly Permeable from 77 cm
Ped faces 2.5YR54 (ie not Pale)
No evidence of Manganese
Red Soil not gleyed within 70 cm

Wetness Class II

FCD Value and Topsoil Texture equate to ALC Grade I

Pit No 2

Topsoil : 0-32 cm
Medium Sandy Silt Loam
5YR43
< 2% Manganese

Subsoil 1 : 32-68 cm
Medium Sandy Loam
5YR44
No Manganese
Medium Sub-angular Blocky
Weakly Developed; Very Friable
"Good" Structural Conditions

Subsoil 2 : 68-120+ cm
Loamy Medium Sand
2.5YR34 (Dark Reddish Brown)
Medium Sub-angular Blocky
Weakly Developed; Friable
"Good" Structural Conditions

AP Wheat = 152 mm MD Wheat = 108 mm MB Wheat = +44 mm
AP Potatoes = 117 mm MD Potatoes = 101 mm MB Potatoes = +16 mm

Grade according to Droughtiness = I

Pit No 3

See Baker Development Report

Pit No 4

Topsoil : 0-19 cm
Medium Clay Loam
5YR44 (Reddish Brown)

Subsoil 1 : 19-30 cm
Heavy Clay Loam
5YR43/44
< 2% Manganese

Subsoil 2 : 30-80+ cm
Clay
5YR46
Ped faces 5YR 64/54
> 2% Manganese
Coarse Prismatic Structure from 40 cm, Moderately Developed
< 0.5% Biopores (> 0.5 mm)
Evidence of > 2% Mottling from 40 cm

Gleyed, 40-70 cm; SPL, + 40 cm

Wetness Class III

FCD Value and topsoil Texture equate to ALC grade 3A