

### APPENDIX 3: SOIL PIT DESCRIPTIONS

Pit 1						
Depth mm	Colour	Texture	Gleyed	Structure/ (Drought structure)	Stones total (>2 cm in topsoil)	Porosity
0 - 250	10YR3/3 Dark brown	C (calc)	no	m f sab	30% (25%)	-
250 - 450	10YR4/4 Dark yellowish brown	C	no	wk f sab/ (average)	80%	>0.5%
450 - 1200	10YR7/6 Yellow	SCL	no	v wk f ab/ (average)	75%	>0.5%
<b>Roots:</b> many to 500 mm few to 700/750 mm						
<b>Gleyed:</b> none <700 mm <b>Slowly permeable layer:</b> none <800 mm <b>Wetness Class: 1</b>						
<b>Moisture balance:</b> Wheat: -49mm    Potatoes: -45mm (model cut at 950mm)						
<b>Main Limitation:</b> DR/ST <b>Grade: 3b/4</b>						

Pit 2						
Depth mm	Colour	Texture	Gleyed	Structure/ (Drought structure)	Stones total (>2 cm in topsoil)	Porosity
0 – 250 (psd)	10YR3/3 Dark brown	C (calc)	no	st f sab	20% (15%)	-
250 - 600	10YR5/6 Yellowish brown	C	no	wk f ab (average)	50%	>0.5%
600 - 1200	10YR6/6 Brownish yellow	SCL	no	wk f ab (poor)	80%	>0.5%
<b>Roots:</b> Maximum rooting 600 mm						
<b>Gleyed:</b> none<700 mm. <b>Slowly permeable layer:</b> none<800 mm. <b>Wetness Class: 1</b>						
<b>Moisture balance:</b> Wheat: -39mm    Potatoes: -26mm (drought model cut at 800mm)						
<b>Main Limitation:</b> DR/ST <b>Grade: 3b</b>						

Pit 3						
Depth mm	Colour	Texture	Gleyed	Structure/ (Drought structure)	Stones total (>2 cm in topsoil)	Porosity
0 – 270 (psd)	10YR4/3 Dark brown	ZC (calc)	no	wk f sab	25% (20%)	-
270 - 500	10YR4/4 Dark yellowish brown	ZC	no	too stony to assess (poor)	80%	>0.5%
500 - 700	10YR5/6 Yellowish brown	C	no	wk f ab (poor)	40%	>0.5%
700 - 1200	10YR5/6 Yellowish brown	C	no	too stony to assess (poor)	80%	>0.5%
<b>Roots:</b> many to 600 mm – v few to 850 mm, growing between the stones						
<b>Gleyed:</b> none <700 mm <b>Slowly permeable layer:</b> none < 800 mm. <b>Wetness Class: 1</b>						
<b>Moisture balance:</b> Wheat: -35mm    Potatoes: -26mm (model cut at 105mm)						
<b>Main Limitation:</b> DR/ST <b>Grade: 3b</b>						

Pit 4						
Depth mm	Colour	Texture	Gleyed	Structure/ (Drought structure)	Stones total (>2 cm in topsoil)	Porosity
0 - 250	10YR4/4 Dark brown	C (calc)	no	m m sab	5% (4%)	-
250 - 450	10YR5/6 Yellowish brown	C	no	wk m sab/ (poor)	75%	>0.5%
450 - 1200	10YR6/6 Brownish yellow	C	no	-/ (poor)	60%	>0.5%
<b>Roots:</b> mainly to 450 mm, v few to 600						
<b>Gleyed:</b> none < 700 mm. <b>Slowly permeable layer:</b> none<800 mm. <b>Wetness Class: 1</b>						
<b>Moisture balance:</b> Wheat: -44    Potatoes: -31 (model cut at 750mm)						
<b>Main Limitation:</b> DR <b>Grade: 3b</b>						

Pit 5						
Depth mm	Colour	Texture	Gleyed	Structure/ (Drought structure)	Stones total (>2 cm in topsoil)	Porosity
0 – 280 (psd)	10YR4/3 Dark brown	C (calc)	no	wk f sab	30% (25%)	-
280 - 500	10YR5/6 Yellowish brown	C	no	wk f sab/ (poor)	85%	>0.5%
500 - 1200	10YR6/6 Brownish yellow	C/SCL	no	wk f sab (poor)	70%	>0.5%
<p><b>Roots:</b> mainly to 550 mm</p> <p><b>Gleyed:</b> none &lt; 700 mm. <b>Slowly permeable layer:</b> none &lt; 800 mm. <b>Wetness Class: 1</b></p> <p><b>Moisture balance:</b> Wheat: -55mm Potatoes: -44mm ( model cut at 800mm)</p> <p><b>Main Limitation:</b> DR/ST <b>Grade: 4</b></p>						