Nailsea SOIL PIT DESCRIPTIONS

<u>Pit No 1</u>

- Topsoil : 0-18 cm Medium sandy silt loam 10YR 4/3 2% stones 2-6 cm
- <u>Subsoil 1</u> 18-42 cm Medium clay loam 7.5YR 4/4 6% stones 2-6 cm; 1% stones <2 cm Weak medium subangular blocky; very friable < 0.5% biospores >0.5 mm
- <u>Subsoil 2</u> <u>42-80 cm</u> <u>30% stones 2-6 cm; 3% stones 2 cm</u> (soft med/coarse grained sandstone)
- Subsoil 3 80+ cm Sandstone

AP wheat = 137 mm; MD wheat = 95 mm; MB wheat = \*42 mm AP potatoes = 112 mm, MD potatoes = 85 mm, MB potatoes = \*27 mm Grade According to Droughtiness = 1

<u>Pit No 2</u>		
<u>Topsoil :</u>	0-23 cm Medium Clay Loam 10YR42	
<u>Subsoil 1 :</u>	23-33 cm Medium Clay Loam 7.5YR44 approx. 10% stones, 2-6 cm (Visual estimate)	
<u>Subsoil 2 :</u>	33-48 cm Medium Clay Loam 7.5YR44 approx 50% stones (Sieve); hard sandstone Good structure assumed (high stone content prevented assessment)	
<u>Subsoil 3 :</u>	+ 48 cm Rock (ie greater than 70% stone), hard sandstone	
AP Wheat = 81 mm (using TAV/EAV values of 1%/0.5% for the rock and stones) AP Pots = 79 mm MB Wheat = 14 mm MB Pots = 6 mm Grade according to Droughtiness = 3A		
<u>Pit No 3</u>		
<u>Topsoil :</u>	0-20 cm Medium Clay Loam 10YR43	
<u>Subsoil :</u>	20-47 cm Sandy Clay Loam 7.5YR44 approx. 10% stones, 2-6 cm (sieve), hard sandstone Coarse and Medium Sub-angular Blocky; Weakly developed; friable (ie Good Structure)	
<u>Subsoil 2 :</u>	47-57 cm Sandy Clay Loam; Good structure assumed (difficult to assess with high stone content) 7.5YR44 approx. 50% stones (sieve); hard flaggy sandstone	
<u>Subsoil 3 :</u>	+ 57 cm Rock (ie, greater than 70% stone) hard sandstone.	
AP Wheat = 94 mm (using hard rock values) AP Pots = 99 mm MB Wheat = -1 mm MB Pots = +14 mm Grade according to Droughtiness = 3A		

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## Pit No 4

Slope = 31-4°; slightly variable microrelief. Poached and Waterlogged surface

<u>Topsoil :</u>	0-21 cm Medium Clay Loam
Subsoil 1:	10YR42; dark grey brown 21-49 cm
SUDSVII I.	

Clay 5YR53; just pale; ped faces are definitely pale (5YR53) Less than 2% manganese; not well developed Medium prismatic at the base of this horizon Less than 0.5% biopores greater than 0.5 mm Stony layer, 21-26 cm (10-20%, larger than 2 cm)

<u>Subsoil 2 :</u> <u>49-80+ cm</u> Clay Gleying present : Matrix colour = 5YR53/2.5YR54; ped faces are pale (5YR53); greater than 2% Manganese no evidence of mottling Very Coarse Prismatic Less than 0.5% biopores greater than 0.5 mm

In the assessment of Soil Wetness Class, Figure 8 is used : there is an SPL at less than 80 cm and the soil, although Red, is gleyed between 40-70 cm. Wetness Class = III For MCL at FCD = 191 and WC = III, Grade according to Wetness = 3A.