

Project Name: ENT
Project Code: ENT **Site ID:** H274 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	K.D. Nicholls	Locality:	1.5KM NW of Huonville on property "Clifton":29.6M from orchard fence and 2.3M S from N fence:
Date Desc.:	10/11/71	Elevation:	5 metres
Map Ref.:		Rainfall:	0
Northing/Long.:	147.036111111111	Runoff:	Moderately rapid
Easting/Lat.:	-43.013888888889	Drainage:	Moderately well drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Flood plain
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	No Data	Slope Category:	Gently inclined
Slope:	0 %	Aspect:	0 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Mottled Mesotrophic Red Kandosol	Principal Profile Form:	Gn2.12
ASC Confidence:	Great Soil Group:	Alluvial soil
No analytical data are available but confidence is fair.		

Site Disturbance: Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation:

Surface Coarse Fragments:

Profile Morphology

Ap	0.005 - 0.1 m	Brown (7.5YR4/4-Moist); , 7.5YR32; , 10YR22; Sandy loam; Massive grade of structure; Earthy fabric; Fine (1-2mm) macropores, Moist; Firm consistence; Non-plastic; ManyDiffuse change to -
Ap	0.1 - 0.2 m	Brown (7.5YR4/4-Moist); , 7.5YR32; , 10YR22; Sandy loam; Massive grade of structure; Earthy fabric; Fine (1-2mm) macropores, Moist; Firm consistence; Non-plastic; ManyDiffuse change to -
A3	0.2 - 0.25 m	Dark brown (7.5YR3/2-Moist); , 10YR22; , 5YR44; Sandy loam; Massive grade of structure; Earthy fabric; Fine (1-2mm) macropores, Moist; Firm consistence; Non-plastic; ManyClear change to -
B1	0.25 - 0.3 m	Reddish brown (5YR4/4-Moist); , 5YR44; , 10YR22; Sandy clay loam (Light); Massive grade of structure; Earthy fabric; Fine (1-2mm) macropores, Moist; Firm consistence; Non-plastic; ManyDiffuse change to -
B2	0.3 - 0.4 m	Reddish brown (5YR4/4-Moist); , 10YR22, 2-10% ; , 2-10% ; Sandy clay loam; Weak grade of structure, 20-50 mm, Angular blocky; Earthy fabric; Fine (1-2mm) macropores, Moist; Firm consistence; Non-plastic; ManyDiffuse change to -
B2	0.4 - 0.5 m	Reddish brown (5YR4/4-Moist); , 7.5YR44; Sandy clay loam; Weak grade of structure, 20-50 mm, Angular blocky; Earthy fabric; Fine (1-2mm) macropores, Moist; Firm consistence; Non-plastic; ManyDiffuse change to -
	0.5 - 0.6 m	Brown (7.5YR4/4-Moist); ; Sandy clay loam (Heavy); Weak grade of structure, 20-50 mm, Angular blocky; Very firm consistence; Non-plastic; 0-2%, Charcoal, coarse fragments; ManyDiffuse change to -
	0.6 - 0.7 m	Brown (7.5YR4/4-Moist); ; Sandy clay loam; Weak grade of structure, 20-50 mm, Angular blocky; Very firm consistence; Non-plastic; 0-2%, Charcoal, coarse fragments; ManyDiffuse change to -
	0.7 - 0.8 m	Brown (7.5YR4/4-Moist); ; Sandy clay loam; Massive grade of structure; Very firm consistence; Non-plastic; ManyDiffuse change to -
	0.8 - 0.9 m	Brown (7.5YR4/4-Moist); ; Sandy clay loam; Massive grade of structure; Very firm consistence; Non-plastic; CommonDiffuse change to -

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0.9 - 1 m	Strong brown (7.5YR5/6-Moist); , 7.5YR44; Sandy clay loam (Light); Massive grade of structure; Very firm consistence; Non-plastic; , Manganiferous, Fine (0 - 2 mm), ; FewDiffuse change to -
1 - 1.1 m	Strong brown (7.5YR5/6-Moist); , 7.5YR44; Clayey sand; Massive grade of structure; Very firm consistence; Non-plastic; , Manganiferous, Fine (0 - 2 mm), ; FewDiffuse change to -
1.1 - 1.2 m	Strong brown (7.5YR5/6-Moist); , 7.5YR44; Clayey sand; Massive grade of structure; Very firm consistence; Non-plastic; , Manganiferous, Fine (0 - 2 mm), ; FewDiffuse change to -
1.2 - 1.3 m	Strong brown (7.5YR5/6-Moist); , 7.5YR44; Clayey sand; Massive grade of structure; Very firm consistence; Non-plastic; , Manganiferous, Fine (0 - 2 mm), ; Diffuse change to -
1.5 - 1.7 m	Brown (10YR4/3-Moist); , 10YR33; Fine sandy clay loam; Weak grade of structure, 2-5 mm, Subangular blocky; Very firm consistence; Non-plastic; Diffuse change to -
1.9 - 2.1 m	Dark brown (7.5YR3/2-Moist); , ; Fine sandy clay loam; Moderate grade of structure, 2-5 mm, Subangular blocky; Very firm consistence; Non-plastic; Diffuse change to -
2.5 - 2.7 m	Dark brown (10YR3/3-Moist); , 10YR43; , 10YR53; Sandy clay loam; Massive grade of structure; Very firm consistence; Slightly plastic; Normal plasticity; Diffuse change to -
3.2 - 3.5 m	Brown (7.5YR4/4-Moist); , 2.5Y52; Sandy clay loam; Massive grade of structure; Very firm consistence; Slightly plastic; Normal plasticity; Diffuse change to -

Morphological Notes

Observation Notes

90-110CM PROMINENT FINE TUBULES ALSO (<1MM):270-320CM DB MOTTLES MODERATELY HARD AND CEMENTED:0-90CM WORMS ACTIVE:

Site Notes

DERWENT

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[illegible]

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0.4 - 0.5
0.5 - 0.6
0.6 - 0.7
0.7 - 0.8
0.8 - 0.9
0.9 - 1
1 - 1.1
1.1 - 1.2
1.2 - 1.3
1.5 - 1.7
1.9 - 2.1
2.5 - 2.7
3.2 - 3.5

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Laboratory Analyses Completed for this profile

2_LOI	Loss on Ignition (%)
2A1	Air-dry moisture content
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
MIN_EC	Exchange Capacity - Minerology
P10_PB_C	Clay (%) - Plummet balance
P10_PB_CS	Coarse sand (%) - Plummet balance
P10_PB_FS	Fine sand (%) - Plummet balance
P10_PB_Z	Silt (%) - Plummet balance
XRD_C_II	Illite - X-Ray Diffraction
XRD_C_K2O	K2O - X-Ray Diffraction or Clay Fraction (air dry)
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction
XRD_C_Vm	Vermiculite - X-Ray Diffraction