

Project Name: PIE  
Project Code: PIE Site ID: H72 Observation ID: 1  
Agency Name: CSIRO Division of Soils (TAS)

**Site Information**

Desc. By:	K.D. Nicholls	Locality:	20.4km from Corinna on Waratah h'way:
Date Desc.:	09/01/54	Elevation:	427 metres
Map Ref.:	Sheet No. : 7915 1:100000	Rainfall:	1370
Northing/Long.:	145.25	Runoff:	Slow
Easting/Lat.:	-41.483333333333	Drainage:	Poorly drained

**Geology**

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Soil pit, 0.51 m deep, Quartzite

**Land Form**

Rel/Slope Class:	Rolling rises 9-30m 10-32%	Pattern Type:	Rises
Morph. Type:	Ridge	Relief:	No Data
Elem. Type:	No Data	Slope Category:	Moderately inclined
Slope:	0 %	Aspect:	No Data

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

Australian Soil Classification:	Mapping Unit:	N/A
Humose Humic Aquic Podsol	Principal Profile Form:	O
ASC Confidence:	Great Soil Group:	Acid peat
All necessary analytical data are available.		

**Site Disturbance:** No effective disturbance. Natural

**Vegetation:** Low Strata - Tussock grass, 0.26-0.5m, Sparse. \*Species includes - None recorded  
Tall Strata - Heath shrub, 0.51-1m, Sparse. \*Species includes - None Recorded

**Surface Coarse Fragments:**

**Profile Morphology**

P1	0 - 0.15 m	Very dark greyish brown (10YR3/2-Moist); ; Sapric peat (Sapric); Massive grade of structure; Wet; Firm consistence; Abundant, coarse (>5mm) roots; Diffuse change to -
P2	0.15 - 0.3 m	Very dark greyish brown (10YR3/2-Moist); ; Sapric peat (Sapric); Massive grade of structure; Wet; Firm consistence; 0-2%, fine gravelly, 2-6mm, angular, Quartzite, coarse fragments; Diffuse change to -
P2	0.3 - 0.43 m	Very dark greyish brown (10YR3/2-Moist); ; Sapric peat (Sapric); Massive grade of structure; Wet; Firm consistence; 2-10%, Gravel, coarse fragments; Sharp, Irregular change to -
C	0.51 - 0.61 m ;	

**Morphological Notes**

C Decomposed quartzite with platy structure:

**Observation Notes**

**Site Notes**

PIEMAN RIVER

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**Laboratory Test Results:**

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Mg	Cations K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0 - 0.15	4.2A							33.9C		
0.15 - 0.3	4.2A		1.1H	2.3	0.26	0.38	29H 41.6E		45.6B	
0.3 - 0.43	4.2A							19.9C		

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.15		21F 19.9D		0.009D	0.78A							
0.15 - 0.3		10.3F 9.6D		0.004D	0.338A							
0.3 - 0.43		10.2F 9.8D			0.296A							

[illegible]

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**Laboratory Analyses Completed for this profile**

15D1_CEC	CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
15E1_CA	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) by compulsive exchange, no pretreatment for soluble
15E1_K	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15G_C_H1	Exchangeable hydrogen - meq per 100g of soil - Hydrogen By back titration of A or B
15G1_H	Hydrogen Cation - meq per 100g of soil - 1M KCl Exch. Acidity By titration to pH 8.0
15J_H	Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen)
2_LOI	Loss on Ignition (%)
2A1	Air-dry moisture content
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
6_DC	Organic carbon (%) - Dry combustion
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9A_HCL	Total element - P(%) - By boiling HCl