

**Project Name:** Regional  
**Project Code:** REG **Site ID:** T80 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

#### Site Information

<b>Desc. By:</b>	R.F. Isbell	<b>Locality:</b>	4.8KM west of Paluma Dam turn off:0.3KM west of Taravale turn off:
<b>Date Desc.:</b>	12/11/68	<b>Elevation:</b>	838 metres
<b>Map Ref.:</b>	Sheet No. : 8159 1:100000	<b>Rainfall:</b>	1524
<b>Northing/Long.:</b>	146.133333333333	<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>	-19.0208333333333	<b>Drainage:</b>	No Data

#### Geology

<b>ExposureType:</b>	Undisturbed soil core	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	Cuy	<b>Substrate Material:</b>	Undisturbed soil core, Rhyolite

#### Land Form

<b>Rel/Slope Class:</b>	Gently undulating rises 9-30m 1-3%	<b>Pattern Type:</b>	Plain
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	15 metres
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	Gently inclined
<b>Slope:</b>	0 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):** Firm

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Reticulate Dystrophic Red Dermosol		<b>Principal Profile Form:</b>	Gn3.74
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Xanthozem
All necessary analytical data are available.			

**Site Disturbance:** Limited clearing, for example selective logging

**Vegetation:** Low Strata - Tussock grass, 0.51-1m, Mid-dense. \*Species includes - Imperata cylindrica  
Tall Strata - Tree, 20.01-35m, Mid-dense. \*Species includes - None Recorded

#### Surface Coarse Fragments:

#### Profile Morphology

A11	0 - 0.1 m	Very dark grey (10YR3/1-Moist); ; Loam; Strong grade of structure, 2-5 mm, Granular; Moderately moist; Weak consistence; 0-2%, fine gravelly, 2-6mm, Gravel, coarse fragments; Many, fine (1-2mm) roots; Gradual change to -
A12	0.1 - 0.2 m	Very dark grey (10YR3/1-Moist); , 10YR42, 2-10% ; , 2-10% ; Clay loam (Light); Moderate grade of structure, 2-5 mm, Granular; Moderately moist; Weak consistence; 0-2%, fine gravelly, 2-6mm, Gravel, coarse fragments; Many, fine (1-2mm) roots; Gradual change to -
A2	0.2 - 0.3 m	Dark greyish brown (10YR4/2-Moist); Light brownish grey (10YR6/2-Dry); , 7.5YR43; Clay loam; Moderate grade of structure, 10-20 mm, Angular blocky; Moderately moist; Firm consistence; Few, fine (1-2mm) roots; Clear change to -
B1	0.3 - 0.4 m	Brown (7.5YR4/4-Moist); Pink (7.5YR7/4-Dry); , 10YR42, 2-10% ; , 2-10% ; Light clay (Heavy); Moderate grade of structure, 10-20 mm, Angular blocky; Moderately moist; Firm consistence; Few, fine (1-2mm) roots; Clear change to -
B21	0.4 - 0.6 m	Yellowish red (5YR5/6-Moist); , 2.5YR56; , 10YR76; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Very firm consistence; FewGradual change to -
B22	0.6 - 0.9 m	Yellowish red (5YR5/6-Moist); , 2.5YR56; , 10YR76; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Very firm consistence; Clear change to -
B31	0.9 - 1.2 m	Reddish yellow (5YR6/6-Moist); , 2.5YR46; , 10YR75; Medium heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moderately moist; Very firm consistence; Gradual change to -
B32	1.2 - 1.5 m	White (2.5Y8/1-Moist); , 7.5YR68; , 10R44; Medium heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moderately moist; Very firm consistence;
B32	1.5 - 1.8 m	White (2.5Y8/1-Moist); , 7.5YR68; , 10R44; Medium heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moderately moist; Very firm consistence;

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B32	1.8 - 2.1 m	White (2.5Y8/1-Moist); , 7.5YR68; , 10R44; Medium heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moderately moist; Very firm consistence;
B32	2.1 - 2.4 m	White (2.5Y8/1-Moist); , 7.5YR68; , 10R44; Medium heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moderately moist; Very firm consistence; Few, fine (1-2mm) roots;
B32	2.4 - 2.7 m	White (2.5Y8/1-Moist); , 7.5YR68; , 10R44; Medium heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moderately moist; Very firm consistence; Few, fine (1-2mm) roots;
B32	2.7 - 3 m	White (2.5Y8/1-Moist); , 7.5YR68; , 10R44; Medium heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moderately moist; Very firm consistence; Few, fine (1-2mm) roots;
B32	3 - 3.3 m	White (2.5Y8/1-Moist); , 7.5YR68; , 10R44; Medium heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moderately moist; Very firm consistence; Few, fine (1-2mm) roots;
B32	3.3 - 3.6 m	White (2.5Y8/1-Moist); , 7.5YR68; , 10R44; Medium heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moderately moist; Very firm consistence; Few, fine (1-2mm) roots;
B32	3.6 - 3.9 m	White (2.5Y8/1-Moist); , 7.5YR68; , 10R44; Medium heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moderately moist; Very firm consistence; Few, fine (1-2mm) roots; Gradual change to -
B33	3.9 - 4.2 m	Reddish yellow (5YR6/6-Moist); , 5YR82; , 7.5YR68; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moderately moist; Weak consistence; Few
B33	4.2 - 4.5 m	Reddish yellow (5YR6/6-Moist); , 5YR82; , 7.5YR68; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moderately moist; Weak consistence; Few

#### **Morphological Notes**

B33 Profile continues as above:suggestion of w'd rock fabric:

#### **Observation Notes**

120-450CM RED MOTTILING IS VERTICALLY ORIENTATED:10-60CM SOME WORM CASTS:30-40CM MIX OF MATERIAL BY WORM ACTIVITY:

#### **Site Notes**

TARAVALE

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[illegible]

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0.2 - 0.3  
0.3 - 0.4  
0.4 - 0.6  
0.6 - 0.9  
0.9 - 1.2  
1.2 - 1.5  
1.5 - 1.8  
1.8 - 2.1  
2.1 - 2.4  
2.4 - 2.7  
2.7 - 3  
3 - 3.3  
3.3 - 3.6  
3.6 - 3.9  
3.9 - 4.2  
4.2 - 4.5

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**Laboratory Analyses Completed for this profile**

10A1	Total sulfur - X-ray fluorescence
15A2_CA	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_K	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_MG	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_NA	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
17A1	Total potassium - X-ray fluorescence
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
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9A1	Total phosphorus - X-ray fluorescence
9B_9C	Available P (mg/kg) - Bicarbonate P - 0.5M NaHCO <sub>3</sub> extractable
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H <sub>2</sub> SO <sub>4</sub> (BSES)
P10_GRAV	Gravel (%)
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_Hm	Hematite - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction