

**Project Name:** Regional  
**Project Code:** REG **Site ID:** T60 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

**Site Information**

<b>Desc. By:</b>	R.F. Isbell	<b>Locality:</b>	5.1KM east along cleared line from Lorium Point turnoff:
<b>Date Desc.:</b>	//	<b>Elevation:</b>	15 metres
<b>Map Ref.:</b>	Sheet No. : 7272 1:100000	<b>Rainfall:</b>	1600
<b>Northing/Long.:</b>	141.95	<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>	-12.6666666666667	<b>Drainage:</b>	No Data

**Geology**

<b>ExposureType:</b>	No Data	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	TQa	<b>Substrate Material:</b>	Existing vertical exposure, >2mm mm, Detrital sedimentary rock (unidentified)

**Land Form**

<b>Rel/Slope Class:</b>	Level plain <9m <1%	<b>Pattern Type:</b>	Plain
<b>Morph. Type:</b>	Flat	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Plain	<b>Slope Category:</b>	Level
<b>Slope:</b>	0 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):** Loose, Soft

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Bauxitic Dystrophic Red Kandosol		<b>Principal Profile Form:</b>	Gn2.14
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Red earth
All necessary analytical data are available.			

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

**Vegetation:** Low Strata - Tussock grass, 0.51-1m, Mid-dense. \*Species includes - None recorded  
Mid Strata - Tree, 3.01-6m, Very sparse. \*Species includes - Acacia species, Grevillea species  
Tall Strata - Tree, 12.01-20m, Mid-dense. \*Species includes - Eucalyptus tetrodonta, Eucalyptus polycarpa

**Surface Coarse Fragments:** 90-100%, fine gravelly, 2-6mm, rounded, Alcrete (bauxite)

**Profile Morphology**

A1	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); Dark greyish brown (10YR4/2-Dry); ; Loam; Moderate grade of structure, 2-5 mm, Granular; Very firm consistence; Many (20 - 50 %), Aluminous, Medium (2 -6 mm), Concretions; Field pH 6.5 (pH meter); ManyClear change to -
A2	0.1 - 0.25 m	Strong brown (7.5YR4/5-Moist); Reddish yellow (7.5YR6/5-Dry); ; Sandy clay loam; Weak grade of structure, 5-10 mm, Angular blocky; Massive grade of structure; Very firm consistence; Few (2 - 10 %), Aluminous, Medium (2 -6 mm), Concretions; Gradual change to -
B1	0.25 - 0.51 m	Yellowish red (5YR4/6-Moist); Yellowish red (5YR5/6-Dry); ; Clay loam; Massive grade of structure; Loose consistence; Many (20 - 50 %), Aluminous, Medium (2 -6 mm), Concretions; Diffuse change to -
B2	0.51 - 0.76 m	Yellowish red (5YR4/6-Moist); Yellowish red (5YR5/6-Dry); ; Clay loam; Massive grade of structure; Earthy fabric; Loose consistence; Very many (50 - 100 %), Aluminous, Medium (2 -6 mm), Concretions;
B2	0.76 - 1.07 m	Yellowish red (5YR4/6-Moist); Yellowish red (5YR5/6-Dry); ; Light clay; Massive grade of structure; Earthy fabric; Loose consistence; Very many (50 - 100 %), Aluminous, Medium (2 -6 mm), Concretions; Field pH 6.8 (pH meter, 1.07);

**Morphological Notes**

**Observation Notes**

B2 HORIZON EARTHY MATRIX WITH HEAVY PISOLITES:

**Site Notes**

WEIPA

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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
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9A1	Total phosphorus - X-ray fluorescence
MIN_EC	Exchange Capacity - Minerology
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_Bm	Boehmite - X-Ray Diffraction
XRD_C_Ch2	Chloritized 2:1 minerals - X-Ray Diffraction
XRD_C_Gb	Gibbsite - X-Ray Diffraction
XRD_C_Hm	Hematite - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction