

Project Name: Regional
Project Code: REG **Site ID:** T111 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	R.F. Isbell	Locality:	Turnoff on Harvey's Range Road to old Beef Road 12.8KM south of Inghamhighway:
Date Desc.:	12/02/70	Elevation:	No Data
Map Ref.:	Sheet No. : 8259 1:100000	Rainfall:	1115
Northing/Long.:	146.55	Runoff:	Moderately rapid
Easting/Lat.:	-19.3166666666667	Drainage:	Well drained

Geology

ExposureType:	Undisturbed soil core	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	QA	Substrate Material:	No Data

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	Pattern Type:	Plain
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	Prior stream	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Melanic Eutrophic Red Kandosol		Principal Profile Form:	GN3.14
ASC Confidence:		Great Soil Group:	Red podzolic soil
All necessary analytical data are available.			

Site Disturbance: No effective disturbance other than grazing by hoofed animals

Vegetation: Low Strata - Tussock grass, 0.51-1m, Mid-dense. *Species includes - None recorded
Tall Strata - Tree, 12.01-20m, Sparse. *Species includes - Eucalyptus alba, Eucalyptus polycarpa, Eucalyptus tessellaris

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.05 m	Dark reddish brown (5YR2/2-Moist); ; Sandy loam (Heavy); Weak grade of structure, 2-5 mm, Granular; Weak consistence; 2-10%, fine gravelly, 2-6mm, Charcoal, coarse fragments; Common, fine (1-2mm) roots; Clear change to -
A12	0.05 - 0.1 m	Dark reddish brown (5YR3/2-Moist); ; Sandy loam (Heavy); Weak grade of structure, 10-20 mm, Angular blocky; Weak consistence; Common, fine (1-2mm) roots; Gradual change to -
A2	0.1 - 0.2 m	Dark reddish brown (5YR3/2-Moist); ; Sandy loam (Heavy); Weak grade of structure, 10-20 mm, Angular blocky; Earthy fabric; Weak consistence; 2-10%, fine gravelly, 2-6mm, Charcoal, coarse fragments; Few, fine (1-2mm) roots; Gradual change to -
B1	0.2 - 0.3 m	Dark reddish brown (2.5YR3/4-Moist); ; Sandy clay loam; Weak grade of structure, 10-20 mm, Angular blocky; Earthy fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Weak consistence; Few, fine (1-2mm) roots; Gradual change to -
B21	0.3 - 0.45 m	Dark red (2.5YR3/6-Moist); ; Light clay; Weak grade of structure, 20-50 mm, Angular blocky; Earthy fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Weak consistence; Few, fine (1-2mm) roots; Gradual change to -
B22	0.45 - 0.6 m	Dark red (2.5YR3/6-Moist); ; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Weak consistence; Few, fine (1-2mm) roots; Gradual change to -
B23	0.6 - 0.75 m	Dark red (2.5YR3/6-Moist); ; Sandy medium clay; Weak grade of structure, 20-50 mm, Angular blocky; Earthy fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Weak consistence; Gradual change to -
BC	0.75 - 0.9 m	Dark red (2.5YR3/7-Moist); ; Sandy clay loam (Light); Weak grade of structure, 20-50 mm, Angular blocky; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Weak consistence; 2-10%, medium gravelly, 6-20mm, Gravel, coarse fragments; Gradual change to -
BC	0.9 - 1.13 m	Dark red (2.5YR3/8-Moist); ; Clay loam, sandy (Heavy); Massive grade of structure; Few (<1 per 100mm2) Fine (1-2mm) macropores, Very weak consistence; Gradual change to -

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C	1.13 - 1.2 m	Yellowish red (5YR4/8-Moist); ; Clay loam, sandy; Massive grade of structure; Very weak consistence;
C	1.2 - 1.5 m	Yellowish red (5YR4/8-Moist); ; Clay loam, sandy (Light); Single grain grade of structure; Loose consistence; 2-10%, medium gravelly, 6-20mm, rounded, Gravel, coarse fragments;
C	1.5 - 1.8 m	Yellowish red (5YR4/8-Moist); ; Clay loam, sandy (Light); Single grain grade of structure; Loose consistence; 2-10%, medium gravelly, 6-20mm, rounded, Gravel, coarse fragments;

Morphological Notes

Observation Notes

Site Notes

HARVEY'S RANGE

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity		%
0 - 0.05	6.4A	0.044A	8.1B	1.9	0.36	0.18		12.2C	1.48
0.05 - 0.1	6.4A	0.035A							
0.1 - 0.2	6.5A	0.026A	3.5B	1	0.17	0.14		6.3C	2.22
0.2 - 0.3	6.4A	0.077A							
0.3 - 0.45	6.4A	0.026A	3.7B	1.6	0.27	0.14		6.6C	2.12
0.45 - 0.6	6.3A	0.035A							
0.6 - 0.75	6.2A	0.032A	4.6B	2	0.33	0.19		7.2C	2.64
0.75 - 0.9	6A	0.029A							
0.9 - 1.13	6.3A	0.026A							
1.13 - 1.2	6.3A	0.077A							
1.2 - 1.5	6.4A	0.023A							
1.5 - 1.8	6.5A	0.023A							

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Laboratory Analyses Completed for this profile

10A1	Total sulfur - X-ray fluorescence
15A2_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 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
15D1_CEC	CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
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 ₃ extractable
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H ₂ SO ₄ (BSES)
P10_CF_C	Clay (%) - Coventry and Fett pipette method
P10_CF_CS	Coarse sand (%) - Coventry and Fett pipette method
P10_CF_FS	Fine sand (%) - Coventry and Fett pipette method
P10_CF_Z	Silt (%) - Coventry and Fett pipette method