

Project Name: Regional
Project Code: REG **Site ID:** T265 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	R.F. Isbell	Locality:	Highway 1.2KM east of Black Mt. turnoff:
Date Desc.:	08/08/78	Elevation:	No Data
Map Ref.:	Sheet No. : 8064 1:100000	Rainfall:	2000
Northing/Long.:	145.65	Runoff:	Rapid
Easting/Lat.:	-16.825	Drainage:	No Data

Geology

ExposureType:	Existing vertical exposure	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Pzb	Substrate Material:	1 m deep,Phyllite

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Low hills
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	Moderately inclined
Slope:	21.3 %	Aspect:	No Data

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Bleached-Acidic Magnesic Yellow Dermosol	Principal Profile Form:	Um4.43
ASC Confidence:	Great Soil Group:	Xanthozem
All necessary analytical data are available.		

Site Disturbance: Extensive clearing, for example poisoning, ringbarking

Vegetation:

Tall Strata - Tree, 12.01-20m, Closed or dense. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Dark greyish brown (10YR4/2-Moist); ; Silty clay loam; Strong grade of structure, 2-5 mm, Cast; Weak consistence; AbundantClear change to -
A1A2	0.1 - 0.2 m	Pale brown (10YR6/3-Moist); ; Clay loam; Strong grade of structure, 5-10 mm, Cast; Weak consistence; 0-2%, Gravel, coarse fragments; Gradual change to -
B1	0.2 - 0.3 m	Brownish yellow (10YR6/5-Moist); , 7.5YR58, 0-2% , 0-5mm, Distinct; , 0-2% , 0-5mm, Distinct; Clay loam; Moderate grade of structure, 10-20 mm, Subangular blocky; Firm consistence; 0-2%, Gravel, coarse fragments; Gradual change to -
B21	0.3 - 0.45 m	Brownish yellow (10YR6/6-Moist); , 7.5YR58, 0-2% , 0-5mm, Distinct; , 0-2% , 0-5mm, Distinct; Clay loam; Moderate grade of structure, 10-20 mm, Subangular blocky; Very firm consistence; 0-2%, Gravel, coarse fragments; Gradual change to -
B22	0.45 - 0.6 m	Yellow (10YR7/6-Moist); , 5YR58, 2-10% , 15-30mm, Faint; , 2-10% , 15-30mm, Faint; Clay loam; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Very firm consistence; Gradual change to -
B22	0.6 - 0.8 m	Yellow (10YR7/6-Moist); , 5YR58, 2-10% , 15-30mm, Faint; , 2-10% , 15-30mm, Faint; Clay loam; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Firm consistence; 0-2%, undisturbed, Gravel, coarse fragments; Clear change to -
C	0.8 - 0.9 m	;

Morphological Notes

C Soft weathered rock (fabric visible):CL textured:

Observation Notes

20-45CM MOTTLE IS RUSTY COLOURED:NORMALLY WEATHERED ROCK DOMINANT BY 1M

Site Notes

KURANDA

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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	Acidity			%
						Cmol	(+)/kg			
0 - 0.1	4.3A	0.086A	0.34B	0.57	0.17	0.03	10.1F	8.76A	11.2F	0.34
0.1 - 0.2	4.7A	0.05A								
0.2 - 0.3	5.1A	0.032A	0.07B	0.88	0.13	0.02	7.24F	7.6A	8.3F	0.26
0.3 - 0.45	5A	0.023A								
0.45 - 0.6	5.2A	0.017A	0.04B	0.57	0.09	0.03	7.28F	7.51A	8F	0.40
0.6 - 0.8	5.1A	0.017A	0.04B	0.24	0.09	0.03	8.04F	8.32A	8.4F	0.36
0.8 - 0.9	5.1A	0.011A								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size		Analysis	
m	%	%	mg/kg	%	%	%	Mg/m3	GV	CS	FS %	Silt Clay
0 - 0.1		3.14D	10.9B		0.196A			0	3A	36	26 35
0.1 - 0.2		1.7D	4.4B		0.116A			0	4A	34	25 37
0.2 - 0.3		0.81D	<1B					0	3A	34	26 36
0.3 - 0.45		0.62D						0	5A	31	30 35
0.45 - 0.6		0.4D	<1B					0	4A	27	40 30
0.6 - 0.8		0.37D						0	5A	23	51 22
0.8 - 0.9		0.15D									

Depth	COLE	Gravimetric/Volumetric Water Contents							K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m		g/g - m3/m3							mm/h	mm/h
0 - 0.1										
0.1 - 0.2										
0.2 - 0.3										
0.3 - 0.45										
0.45 - 0.6										
0.6 - 0.8										
0.8 - 0.9										

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Laboratory Analyses Completed for this profile

12_HF_CU	Total element - Cu(mg/kg) - HF/HClO ₄ Digest
12_HF_MN	Total element - Mn(mg/kg) - HF/HClO ₄ Digest
12_HF_ZN	Total element - Zn(mg/kg) - HF/HClO ₄ Digest
13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
15A2_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_CEC	Exchangeable bases- 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
15G_C	Exchange acidity (hydrogen and aluminium) - meq per 100g of soil - By 1M KCl exch. acidity by titration to pH 8.4
15J1	Effective CEC
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
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
P10_GRAV	Gravel (%)