

Project Name: Regional
Project Code: REG **Site ID:** T244 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.G. Murtha	Locality:	Soil biology litter fall site:
Date Desc.:	22/10/75	Elevation:	60 metres
Map Ref.:	Sheet No. : 8062 1:100000	Rainfall:	3050
Northing/Long.:	145.966666666667	Runoff:	Moderately rapid
Easting/Lat.:	-17.55	Drainage:	Well drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	CZA	Substrate Material:	Basalt

Land Form

Rel/Slope Class:	Undulating rises 9-30m 3-10%	Pattern Type:	Volcano
Morph. Type:	Upper-slope	Relief:	20 metres
Elem. Type:	Hillslope	Slope Category:	Moderately inclined
Slope:	5 %	Aspect:	220 degrees

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Acidic Dystrophic Red Ferrosol		Principal Profile Form:	Gn3.11
ASC Confidence:		Great Soil Group:	Krasnozern
Analytical data are incomplete but reasonable confidence.			

Site Disturbance: No effective disturbance. Natural

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Dark reddish brown (2.5YR3/4-Moist); ; Clay loam; Strong grade of structure, 5-10 mm, Cast; Rough-ped fabric; Moist; Weak consistence; Abundant, medium (2-5mm) roots; Diffuse change to -
B1	0.1 - 0.2 m	Dark reddish brown (2.5YR3/4-Moist); ; Clay loam (Heavy); Weak grade of structure, 5-10 mm, Angular blocky; Rough-ped fabric; Moist; Weak consistence; Many, fine (1-2mm) roots;
B1	0.2 - 0.3 m	Dark reddish brown (2.5YR3/4-Moist); ; Light clay; Weak grade of structure, 5-10 mm, Angular blocky; Rough-ped fabric; Moist; Weak consistence; Common, fine (1-2mm) roots; Diffuse change to -
B21	0.3 - 0.6 m	Dusky red (10R3/4-Moist); ; Light medium clay; Weak grade of structure, 5-10 mm, Angular blocky; Rough-ped fabric; Moist; Weak consistence; Few, fine (1-2mm) roots;
B21	0.6 - 0.9 m	Dusky red (10R3/4-Moist); ; Light medium clay; Moderate grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Moist; Weak consistence;
B22	0.9 - 1.2 m	Dark reddish brown (2.5YR3/4-Moist); ; Medium clay; Strong grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Moist; Weak consistence;
B23	1.2 - 1.5 m	Dark reddish brown (5YR3/4-Moist); ; Medium clay; Strong grade of structure, 2-5 mm, Polyhedral; Smooth-ped fabric; Moderately moist; Very firm consistence;
B24	1.5 - 1.8 m	Dark reddish grey (5YR4/2-Moist); ; Medium clay (Heavy); Strong grade of structure, 2-5 mm, Polyhedral; Smooth-ped fabric; Moderately moist; Very firm consistence;
B24	1.8 - 2.1 m	Dark reddish grey (5YR4/2-Moist); ; Medium clay (Heavy); Strong grade of structure, 2-5 mm, Polyhedral; Smooth-ped fabric; Moderately moist; Very firm consistence;
BC	2.1 - 2.4 m	Brown (7.5YR4/2-Moist); ; Medium clay (Heavy); Strong grade of structure, 2-5 mm, Polyhedral; Smooth-ped fabric; Moderately moist; Very firm consistence;
	2.4 - 2.7 m	Brown (7.5YR4/2-Moist); ; Medium clay (Heavy); Strong grade of structure, 2-5 mm, Polyhedral; Smooth-ped fabric; Very firm consistence;
	2.7 - 3.3 m	Brown (7.5YR4/2-Moist); ; Medium clay (Heavy); Strong grade of structure, 2-5 mm, Polyhedral; Smooth-ped fabric; Very firm consistence;

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3.3 - 3.9 m	Brown (7.5YR4/2-Moist); ; Medium clay (Heavy); Strong grade of structure, 2-5 mm, Polyhedral; Smooth-ped fabric; Very firm consistence;
3.9 - 4.2 m	Brown (7.5YR4/2-Moist); ; Medium clay (Heavy); Strong grade of structure, 2-5 mm, Polyhedral; Smooth-ped fabric; Very firm consistence;

Morphological Notes

Observation Notes

SOME WEATHERED BASALT FABRIC EVIDENT FROM 60CM:

Site Notes

PIN GIN HILL

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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 - 0.1	5.4A	0.044A	0.34H	0.85	0.24	0.09	0.8F	2.81A	3.20
0.1 - 0.2	5.5A	0.026A	0.09H	0.33	0.21	0.06	0.4F	2.21A	2.71
0.2 - 0.3	5.6A	0.019A	0.06H	0.17	0.09	0.04	0.4F	1.47A	2.72
0.3 - 0.6	5.6A	0.017A	0.39H	0.08	0.04	0.04	0.3F	0.78A	5.13
0.6 - 0.9	5.6A	0.01A	<0.02H	0.05	0.04	0.03	0.2F	<0.1A	0.3F
0.9 - 1.2	5.6A	0.006A	<0.02H	0.18	0.03	0.03	0.2F	<0.1A	0.5F
1.2 - 1.5	5.4A	0.009A	<0.02H	0.24	0.04	0.05	0.2F	<0.1A	0.6F
1.5 - 1.8	5.3A	0.009A	<0.02H	0.19	0.05	0.07	0.5F	<0.1A	0.8F
1.8 - 2.1	5.4A	0.01A	<0.02H	0.12	0.05	0.12	1.1F	<0.1A	1.4F
2.1 - 2.4									
2.4 - 2.7									
2.7 - 3.3	5.4A	0.009A	<0.02H	0.12	0.04	0.17	1.6F	<0.1A	2F

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Laboratory Analyses Completed for this profile

15A2_CEC	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) 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	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 (%)