

Project Name: Regional
Project Code: REG **Site ID:** T285 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.G. Murtha	Locality:	
Date Desc.:	04/07/80	Elevation:	25 metres
Map Ref.:	Sheet No. : 8062 1:100000	Rainfall:	4000
Northing/Long.:	145.966666666667	Runoff:	Very slow
Easting/Lat.:	-17.916666666667	Drainage:	Imperfectly drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	QA	Substrate Material:	Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Alluvial fan
Morph. Type:	Lower-slope	Relief:	No Data
Elem. Type:	Fan	Slope Category:	Gently inclined
Slope:	2 %	Aspect:	0 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:	N/A	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	Gn2.21
		Great Soil Group:	Yellow earth

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

Vegetation:

Mid Strata - Tree, 1.01-3m, Very sparse. *Species includes - Acacia species

Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.1 m	Very dark grey (10YR3/1-Moist); ; Sandy loam; Moderate grade of structure, 5-10 mm, Cast; Moist; Weak consistence; 20-50%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments;
A12	0.1 - 0.2 m	Very dark grey (10YR3/1-Moist); ; 10YR53, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Sandy loam; Weak grade of structure, 5-10 mm, Cast; Moist; Weak consistence; 10-20%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments; Gradual change to -
B1	0.2 - 0.3 m	Yellowish brown (10YR5/5-Moist); , 10YR42, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Coarse sandy clay loam; Massive grade of structure; Earthy fabric; Moist; Weak consistence; 20-50%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Diffuse change to -
B2	0.3 - 0.45 m	Brownish yellow (10YR6/6-Moist); ; Coarse sandy clay loam; Massive grade of structure; Earthy fabric; Moist; Weak consistence; 20-50%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Diffuse change to -
B3	0.45 - 0.6 m	Light yellowish brown (10YR6/4-Moist); ; Coarse sandy clay loam; Massive grade of structure; Earthy fabric; Moist; Weak consistence; 20-50%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments;
	0.6 - 0.9 m	Very pale brown (10YR8/3-Moist); , 10YR74, 2-10% , 5-15mm, Faint; , 2-10% , 5-15mm, Faint; Coarse sand; Single grain grade of structure; Earthy fabric; Weak consistence;
	0.9 - 1.2 m	Very pale brown (10YR8/3-Moist); , 10YR74, 2-10% , 5-15mm, Faint; , 2-10% , 5-15mm, Faint; Coarse sand; Single grain grade of structure; Weak consistence;

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				mol (+)/kg				%
0 - 0.1	5.4A	0.032A	0.6H	0.42	0.1	0.07	0.72F	2.51A	1.9F	2.79
0.1 - 0.2	5.3A	0.026A	0.1H	0.23	0.1	0.07	0.82F	9.6C	1.3F	0.73
0.2 - 0.3	5.2A	0.023A						1.97A		3.55
0.3 - 0.45	5.3A	0.017A	<0.02H	0.32	0.21	0.09	0.82F	5C	1.5F	1.40
0.45 - 0.6	5.8A	0.02A						2.07A		4.35
0.6 - 0.9	5.6A	0.017A						4.1C		2.20
0.9 - 1.2	5.5A	0.014A								

Depth m	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density Mg/m3	Particle		Size	Analysis	
	%	%	mg/kg	%	%	%		GV	CS	FS %	Silt	Clay
0 - 0.1		2.31D	8B	0.011A	0.09A	2.68A		14	66A	16	8	10
0.1 - 0.2		0.52D	9B		0.05A			22	57A	18	11	15
0.2 - 0.3								57	53A	16	10	22
0.3 - 0.45		0.16D	2B	0.005A	0.02A	2.86A		69	56A	14	10	20
0.45 - 0.6								24	59A	16	10	15
0.6 - 0.9								10	69A	18	4	9
0.9 - 1.2								32	87A	5	2	6

[illegible]

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Laboratory Analyses Completed for this profile

10A1	Total sulfur - X-ray fluorescence
12_HF_CU	Total element - Cu(mg/kg) - HF/HClO ₄ Digest
12_HF_FE	Total element - Fe(%) - 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
15A2_CEC	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
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
17A1	Total potassium - X-ray fluorescence
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
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 (%)