

Project Name: Regional
Project Code: REG **Site ID:** T283 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.G. Murtha	Locality:	Lawrence Road 2KM from Lidgard Road:
Date Desc.:	03/07/80	Elevation:	15 metres
Map Ref.:	Sheet No. : 8062 1:100000	Rainfall:	3500
Northing/Long.:	146	Runoff:	No runoff
Easting/Lat.:	-17.55	Drainage:	Well drained

Geology

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

Land Form

Rel/Slope Class:	Gently undulating rises 9-30m 1-3%	Pattern Type:	Low hills
Morph. Type:	Mid-slope	Relief:	10 metres
Elem. Type:	Hillslope	Slope Category:	Gently inclined
Slope:	1 %	Aspect:	90 degrees

Surface Soil Condition (dry): Recently cultivated

Erosion:

Soil Classification

Australian Soil Classification:	N/A	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	Gn3.11
		Great Soil Group:	Krasnozern

Site Disturbance: Cultivation. Rainfed

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

Ap	0 - 0.1 m	Dark reddish brown (2.5YR3/4-Moist); ; Clay loam (Heavy); Weak grade of structure, 10-20 mm, Subangular blocky; Moist; Very firm consistence; 2-10%, medium gravelly, 6-20mm, Basalt, coarse fragments;
Ap	0.1 - 0.2 m	Dark reddish brown (2.5YR3/4-Moist); ; Light clay; Weak grade of structure, 10-20 mm, Subangular blocky; Moist; Very firm consistence; 2-10%, medium gravelly, 6-20mm, Basalt, coarse fragments;
Ap	0.2 - 0.3 m	Dark reddish brown (2.5YR3/4-Moist); ; Light clay; Weak grade of structure, 10-20 mm, Subangular blocky; Moist; Very firm consistence; 2-10%, medium gravelly, 6-20mm, Basalt, coarse fragments; Diffuse change to -
B1	0.3 - 0.6 m	Dark red (10R3/6-Moist); ; Light clay; Weak grade of structure, 10-20 mm, Subangular blocky; Moist; Weak consistence;
B2	0.6 - 0.9 m	Dark red (10R3/6-Moist); ; Light medium clay; Weak grade of structure, 10-20 mm, Subangular blocky; Moist; Weak consistence; 2-10%, medium gravelly, 6-20mm, Basalt, coarse fragments;
B2	0.9 - 1.2 m	Dark red (10R3/6-Moist); ; Medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Wet; Weak consistence; 2-10%, medium gravelly, 6-20mm, Basalt, coarse fragments;
B2	1.2 - 1.5 m	Dark red (10R3/6-Moist); ; Medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Wet; Weak consistence; 2-10%, medium gravelly, 6-20mm, Basalt, coarse fragments; Diffuse change to -
	1.5 - 1.8 m	Dark red (2.5YR3/6-Moist); ; Medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Weak consistence; 2-10%, medium gravelly, 6-20mm, Basalt, coarse fragments;
	1.8 - 2.1 m	Reddish brown (2.5YR4/4-Moist); ; Medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Very firm consistence;
	2.1 - 2.5 m	Reddish brown (2.5YR4/4-Moist); ; Medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Very firm consistence; 2-10%, medium gravelly, 6-20mm, Basalt, coarse fragments;

Morphological Notes

Observation Notes

Site Notes

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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	5A	0.041A	0.84H	<0.01	0.09	0.04	1.6F	1.59A	2.6F	2.52
0.1 - 0.2	5.1A	0.05A	0.19H	<0.01	0.08	0.05	1.8F	1.84A	2.1F	2.72
0.2 - 0.3	5A	0.059A	0.07H	<0.01	<0.01	<0.01	0.7F	1.4A	0.8F	
0.3 - 0.6	4.9A	0.059A	0.02H	<0.01	<0.01	<0.01	0.52F	1A	0.6F	
0.6 - 0.9	5A	0.047A	0.1H	<0.01	0.06	0.07	2.4F	<0.1A	2.6F	
0.9 - 1.2	4.5A	0.065A								
1.2 - 1.5	4.4A	0.092A	<0.01H	<0.01	0.05	<0.01	0.16F	0.6A	0.2F	
1.5 - 1.8	4.4A	0.08A								
1.8 - 2.1	4.6A	0.074A								
2.1 - 2.5	4.7A	0.068A								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle			Analysis	
								GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1		1.93D	25B	0.14A	0.15A	0.11A		0	8A	10	19	64
0.1 - 0.2		1.97D	29B		0.18A			0	7A	10	19	64
0.2 - 0.3		1.57D			0.08A			0	6A	10	17	67
0.3 - 0.6		1.01D			0.05A			0	5A	8	12	75
0.6 - 0.9		0.53D	11B	0.01A	0.04A	0.06A		0	6A	8	14	72
0.9 - 1.2								4	7A	8	14	72
1.2 - 1.5								<2	5A	7	15	73
1.5 - 1.8								2	4A	7	18	71
1.8 - 2.1								<2	5A	7	15	72
2.1 - 2.5								<2	2A	14	16	67

[illegible]

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Laboratory Analyses Completed for this profile

10A1	Total sulfur - X-ray fluorescence
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
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
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 (%)