Project Name: **Regional**
Project Code: **REG** **Site ID:** **T337** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (QLD)**

Site Information

Desc. By: R.J. Coventry
Date Desc.: 07/12/77
Map Ref.: Sheet No. : 7956 1:100000
Northing/Long.: 145.111111111111
Easting/Lat.: -20.7486111111111
Locality:
Elevation: No Data
Rainfall: 600
Runoff: No Data
Drainage: No Data

Geology

ExposureType: Auger boring
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: No Data

Land Form

Rel/Slope Class: No Data
Morph. Type: No Data
Elem. Type: No Data
Slope: 0 %
Pattern Type: No Data
Relief: No Data
Slope Category: No Data
Aspect: No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Acidic Regolithic Orthic Tenosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Uc5.21
Great Soil Group: Earthy sand

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

Vegetation: Low Strata - Hummock grass, 0.26-0.5m, Very sparse. *Species includes - Triodia pungens
Mid Strata - Tree, 3.01-6m, Very sparse. *Species includes - Acacia species, Grevillea glauca
Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - Eucalyptus similis

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.1 m	Dark red (2.5YR3/6-Moist); Red (2.5YR5/8-Dry); ; Sandy loam; Massive grade of structure; Dry; Weak consistence; Gradual change to -
A3	0.1 - 0.2 m	Red (10R4/8-Moist); Red (2.5YR5/6-Dry); ; Sandy loam; Massive grade of structure; Dry; Weak consistence;
A3	0.2 - 0.3 m	Red (10R4/8-Moist); Red (2.5YR5/6-Dry); ; Sandy loam (Heavy); Massive grade of structure; Dry; Weak consistence; Diffuse change to -
B1	0.3 - 0.6 m	Red (10R4/8-Moist); Red (2.5YR4/8-Dry); ; Sandy loam; Massive grade of structure; Dry; Weak consistence;
B1	0.6 - 0.75 m	Red (10R4/8-Moist); Red (2.5YR4/8-Dry); ; Sandy loam; Massive grade of structure; Dry; Weak consistence; Diffuse change to -
B21	0.75 - 0.9 m	Red (10R4/8-Moist); ; Coarse sandy loam; Massive grade of structure; Dry; Weak consistence;
B21	0.9 - 1.2 m	Red (10R4/8-Moist); ; Coarse sandy loam; Massive grade of structure; Dry; Weak consistence;
B21	1.2 - 1.5 m	Red (10R4/8-Moist); ; Coarse sandy loam; Massive grade of structure; Dry; Weak consistence; Diffuse change to -
B22	1.5 - 1.8 m	Red (10R4/8-Moist); ; Sandy loam; Massive grade of structure; Dry; Weak consistence;
B22	1.8 - 2.1 m	Red (10R4/8-Moist); ; Sandy loam; Massive grade of structure; Dry; Weak consistence; Diffuse change to -
B23	2.1 - 2.4 m	Red (10R4/8-Moist); ; Sandy loam; Single grain grade of structure; Dry; Loose consistence;
B23	2.4 - 2.7 m	Red (10R4/8-Moist); ; Sandy loam; Single grain grade of structure; Dry; Loose consistence;
B23	2.7 - 3 m	Red (10R4/8-Moist); ; Sandy loam; Single grain grade of structure; Dry; Loose consistence; Diffuse change to -

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B3	3 - 3.25 m	Red (10R4/8-Moist); , 7.5YR58, 2-10% , 5-15mm, Distinct; , 2-10% , 5-15mm, Distinct; Sandy loam; Single grain grade of structure; Dry; Loose consistence;
B3	3.25 - 3.5 m	Red (10R4/8-Moist); , 7.5YR58, 2-10% , 5-15mm, Distinct; , 2-10% , 5-15mm, Distinct; Sandy loam; Single grain grade of structure; Dry; Loose consistence; Diffuse change to -
C1	3.5 - 4 m	Red (10R4/7-Moist); , 5Y72, 10-20% , 15-30mm, Prominent; , 7.5YR58, 10-20% , 15-30mm, Prominent; Loamy sand; Single grain grade of structure; Dry; Loose consistence;
C1	4 - 4.5 m	Red (10R4/7-Moist); , 5Y72, 10-20% , 15-30mm, Prominent; , 7.5YR58, 10-20% , 15-30mm, Prominent; Loamy sand; Single grain grade of structure; Dry; Loose consistence;
C1	4.5 - 5 m	Red (10R4/7-Moist); , 5Y72, 10-20% , 15-30mm, Prominent; , 7.5YR58, 10-20% , 15-30mm, Prominent; Loamy sand; Single grain grade of structure; Dry; Loose consistence;
C1	5 - 5.5 m	Red (10R4/7-Moist); , 5Y72, 10-20% , 15-30mm, Prominent; , 7.5YR58, 10-20% , 15-30mm, Prominent; Loamy sand; Single grain grade of structure; Dry; Loose consistence; Diffuse change to -
C2	5.5 - 5.7 m	Strong brown (7.5YR5/8-Moist); , 5Y81, 20-50% , 15-30mm, Prominent; , 20-50% , 15-30mm, Prominent; Coarse sandy loam; Single grain grade of structure; Dry; Loose consistence; 0-2%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments;
C2	5.7 - 5.9 m	Strong brown (7.5YR5/8-Moist); , 5Y81, 20-50% , 15-30mm, Prominent; , 20-50% , 15-30mm, Prominent; Coarse sandy loam; Single grain grade of structure; Dry; Loose consistence; 0-2%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; Clear change to -
C3	5.9 - 6.05 m	Red (2.5YR4/8-Moist); , 5Y81, 20-50% , 15-30mm, Prominent; , 20-50% , 15-30mm, Prominent; Sandy loam (Light); Single grain grade of structure; Dry; Loose consistence;
C3	6.05 - 6.2 m	Red (2.5YR4/8-Moist); , 5Y81, 20-50% , 15-30mm, Prominent; , 20-50% , 15-30mm, Prominent; Sandy loam (Light); Single grain grade of structure; Dry; Loose consistence;

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.1	5.5A	0.022A	0.46H	0.39	0.11	0.02	0.36F	1.38A	1.3F	1.45
0.1 - 0.2	5.4A	0.019A								
0.2 - 0.3	5.2A	0.011A	0.02H	0.4	0.06	0.02	0.32F	1.18A	0.8F	1.69
0.3 - 0.6	5.4A	0.009A								
0.6 - 0.75	5.5A	0.016A	0.02H	0.06	0.05	0.02	0.37F	1.32A	0.5F	1.52
0.75 - 0.9	5.4A	0.011A								
0.9 - 1.2	5.2A	0.011A	<0.02H	0.64	0.04	0.02	0.17F	1.41A	0.9F	1.42
1.2 - 1.5	5.4A	0.006A								
1.5 - 1.8	5.5A	0.006A	<0.02H	0.79	0.04	0.02	0.24F	0.97A	1.1F	2.06
1.8 - 2.1	5.5A	0.008A								
2.1 - 2.4	5.2A	0.014A								
2.4 - 2.7	5.6A	0.01A								
2.7 - 3	5.4A	0.006A								
3 - 3.25	5.7A	0.006A								
3.25 - 3.5	5.2A	0.006A								
3.5 - 4	5.3A	0.006A								
4 - 4.5	5.4A	0.006A								
4.5 - 5	5.5A	0.006A								
5 - 5.5	5.2A	0.006A								
5.5 - 5.7	5.3A	0.008A								
5.7 - 5.9	5.5A	0.008A								
5.9 - 6.05	5.4A	0.008A								
6.05 - 6.2	2.2A	0.008A								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis				
								GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1		0.73D	11B		0.024A			1	63A	25	3	9
0.1 - 0.2		0.41D	8B		0.015A			1	58A	29	3	10
0.2 - 0.3		0.18D	5B		0.012A			2	63A	26	2	10
0.3 - 0.6								2	59A	28	2	11
0.6 - 0.75								2	56A	30	3	12
0.75 - 0.9								2	58A	28	2	12
0.9 - 1.2								3	61A	25	2	12
1.2 - 1.5								4	56A	28	2	13
1.5 - 1.8								9	53A	30	2	15
1.8 - 2.1								15	58A	26	2	14
2.1 - 2.4								15	68A	19	2	11
2.4 - 2.7								8	78A	12	1	10
2.7 - 3								6	73A	15	1	11
3 - 3.25								13	66A	20	2	12
3.25 - 3.5								17	70A	18	2	10
3.5 - 4								28	66A	22	2	11
4 - 4.5								23	63A	24	2	11
4.5 - 5								17	62A	24	2	12
5 - 5.5								12	64A	22	2	12
5.5 - 5.7								7	65A	21	2	13
5.7 - 5.9								6	62A	21	2	15
5.9 - 6.05								5	63A	19	2	16
6.05 - 6.2								6	68A	20	2	10

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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 - 0.6										
0.6 - 0.75										
0.75 - 0.9										
0.9 - 1.2										
1.2 - 1.5										
1.5 - 1.8										
1.8 - 2.1										
2.1 - 2.4										
2.4 - 2.7										
2.7 - 3										
3 - 3.25										
3.25 - 3.5										
3.5 - 4										
4 - 4.5										
4.5 - 5										
5 - 5.5										
5.5 - 5.7										
5.7 - 5.9										
5.9 - 6.05										
6.05 - 6.2										

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Laboratory Analyses Completed for this profile

13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
15A2_CEC	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca2+,Mg2+,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 H2SO4 (BSES)
MIN_EC	Exchange Capacity - Minerology
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 (%)
XRD_C_Hm	Hematite - X-Ray Diffraction
XRD_C_Il	Illite - X-Ray Diffraction
XRD_C_K2O	K2O - X-Ray Diffraction or Clay Fraction (air dry)
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction