Project Name: Regional

Project Code: REG Site ID: T364 Observation ID: 1

Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: M.G. Cannon Locality: Date Desc.: 23/11/83 Elevation

 Date Desc.:
 23/11/83
 Elevation:
 25 metres

 Map Ref.:
 Sheet No.: 8161
 1:100000
 Rainfall:
 2250

Northing/Long.: 146.125 Runoff: Moderately rapid
Easting/Lat.: -18.395833333333 Drainage: Moderately well drained

Geology

ExposureType: Undisturbed soil core Conf. Sub. is Parent. Mat.: No Data

Geol. Ref.: QA Substrate Material: Unconsolidated material (unidentified)

Land Form

Rel/Slope Class: Gently undulating plains <9m Pattern Type: Plain

1-3%

Morph. Type: No Data Relief: No Data

Elem. Type: Fan Slope Category: Very gently sloped

Slope: 1.5 % Aspect: No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/AHaplic Mesotrophic Yellow KandosolPrincipal Profile Form:Gn2.21ASC Confidence:Great Soil Group:Yellow earth

All necessary analytical data are available.

Site Disturbance: No effective disturbance. Natural

Vegetation:

Mid Strata - Tree, 3.01-6m, Isolated plants. *Species includes - Planchonia careya

Tall Strata - Tree, 12.01-20m, Sparse. *Species includes - Eucalyptus alba, Eucalyptus acmenoides

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Very dark grey (10YR3/1-Moist); Pale brown (10YR6/3-Dry); Mottles, 0-0%; Mottles, 0-0%; Coarse sandy clay loam (Light); Weak grade of structure, 2-5 mm, Granular; Smooth-ped fabric; 10-20%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Clear, Smooth change to -
AB	0.1 - 0.2 m	Brown (10YR4/3-Moist); Mottles, 0-0%; Mottles, 0-0%; Sandy clay loam; Massive grade of structure; Earthy fabric; 10-20%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Gradual, Wavy change to -
B1	0.2 - 0.3 m	Yellowish brown (10YR5/4-Moist); Mottles, 0-0%; Mottles, 0-0%; Clay loam, sandy (Heavy); Massive grade of structure; Earthy fabric; 2-10%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments;
B1	0.3 - 0.4 m	Yellowish brown (10YR5/4-Moist); Mottles, 0-0%; Mottles, 0-0%; Clay loam, sandy (Heavy); Massive grade of structure; Earthy fabric; 2-10%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Diffuse, Wavy change to -
B21	0.4 - 0.6 m	Yellowish brown (10YR5/8-Moist); Mottles, 0-0%; Mottles, 0-0%; Sandy medium clay (Heavy); Massive grade of structure; Earthy fabric; 10-20%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Diffuse, Smooth change to -
B22	0.6 - 0.9 m	Olive yellow (2.5Y6/6-Moist); Mottles, 0-0%; Mottles, 0-0%; Sandy medium clay (Light); Massive grade of structure; Earthy fabric; 2-10%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Clear, Smooth change to -
D1	0.9 - 1.2 m	Brownish yellow (10YR6/6-Moist); Mottles, 0-0%; Mottles, 0-0%; Sandy clay loam (Light); Massive grade of structure; Earthy fabric; 2-10%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments;
D1	1.2 - 1.5 m	Brownish yellow (10YR6/6-Moist); Mottles, 0-0%; Mottles, 0-0%; Sandy clay loam (Light); Massive grade of structure; Earthy fabric; 2-10%, fine gravelly, 2-6mm, subangular, dispersed,

Quartz, coarse fragments; Clear, Smooth change to -

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1.5 - 1.8 m

Brownish yellow (10YR6/8-Moist); Mottles, 0-0%; Mottles, 0-0%; Sand; Massive grade of structure; Sandy (grains prominent) fabric; 10-20%, fine gravelly, 2-6mm, subangular, dispersed,

Quartz, coarse fragments; Clear, Smooth change to -

D3 1.8 - 1.9 m

Very pale brown (10YR7/4-Moist); Mottles, 0-0%; Mottles, 0-0%; Coarse sand; Massive grade of structure; Sandy (grains prominent) fabric; 50-90%, medium gravelly, 6-20mm, subangular, dispersed, Sand, coarse fragments; Common (10 - 20 %), Manganiferous, Medium (2 -6 mm), Nodules; Abrupt, Smooth change to -

Morphological Notes

Observation Notes

AT DEPTH OF 30CM IS 500MM PINK GRANITE ROCK:

Site Notes

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Project Name: Project Code: Agency Name:

<u>Laboratory Test Results:</u>													
Depth	pН	1:5 EC	Ex Ca	changeable Mg	Cations K	Na	Exchangeable Acidity	CEC	EC	EC	ES	SP	
m		dS/m		_		Cmol (+)/kg					%	1	
0 - 0.1	6.3A	0.02A	3.48H	0.93	0.21	0.02	<0.05F	5A 6.3C		.6F		40 32	
0.1 - 0.2 0.2 - 0.3	6.6A 6.8A	0.02A 0.016A	2.02H	0.78	0.15	<0.02	0.06F	3.4A 4.4C		3F			
0.3 - 0.4 0.4 - 0.6	6.3A 6A	0.019A 0.016A	1.75H	1.27	0.09	0.02	0.23F	3.7A 5.7C	3.	.4F		54 35	
0.6 - 0.9 0.9 - 1.2	6.1A 5.9A	0.014A 0.013A		4.00	0.40	0.00	0.075			.			
1.2 - 1.5	6A	0.013A	0.7H	1.09	0.16	0.02	0.27F	2.6A 3.7C		.2F	0. 0.	// 54	
1.5 - 1.8 1.8 - 1.9	6.1A 6.1A	0.01A 0.013A											
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Tota K	l Bulk Density	Par GV	ticle Siz	ze Aı	nalysis Silt C	lav	
m	%	%	mg/kg		%	%	Mg/m3	٥.		%	O O	.u.y	
0 - 0.1 0.1 - 0.2		1.63C	7B	0.01A	0.0)7A 3.4	4A	7 11	49A 43A	25 27	13 14	12 16	
0.1 - 0.2 0.2 - 0.3 0.3 - 0.4		0.55C	2B	0.006A 0.005A)3A 3.4 3.2		12 13	37A 35A	28 25	14 14 13	21 27	
0.4 - 0.6 0.6 - 0.9 0.9 - 1.2		0.22C	3B	0.003A		5.2		7 1 2	33A 31A 41A	28 32 32	10 11 8	29 26 19	
1.2 - 1.5 1.5 - 1.8		0.21C	3B	0.007A		3.4	4A	0 2	34A 64A	37 16	9 5	20 14	
1.8 - 1.9								44	55A	19	11	15	
Depth									K sat	۲	Cunsat		
m		Sat.	u.us Bar	0.1 Bar g/ <u>ç</u>	0.5 Bar J - m3/m	1 Bar 13	5 Bar 15	Bar	mm/h		mm/h		
0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.4 0.4 - 0.6 0.6 - 0.9 0.9 - 1.2 1.2 - 1.5 1.5 - 1.8 1.8 - 1.9													

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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/HClO4 Digest
12_HF_FE Total element - Fe(%) - HF/HClO4 Digest
12_HF_MN Total element - Mn(mg/kg) - HF/HClO4 Digest

12_HF_MN Total element - Mn(mg/kg) - HF/HCIO4 Digest 12_HF_ZN Total element - Zn(mg/kg) - HF/HCIO4 Digest

13C1_FE
15A2_CEC
15D1_CEC
Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach

15D1_CEC

15E1_CA

15E1_K

15E1_MG

15E1_NA

15E1_NA

15E1_NA

15E1_NA

15E1_NA

15E1_NA

15E1_NA

15E1_CA

15E1_NA

15E

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

6B3 Total organic carbon - high frequency induction furnace, infrared

7A2 Total nitrogen - semimicro Kjeldahl , automated colour

9A1 Total phosphorus - X-ray fluorescence

9G_BSES Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)

9H1 Phosphate retention

P10_CF_C
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
Silt (%) - Coventry and Fett pipette method

P10_GRAV Gravel (%)