

Project Name: Regional
Project Code: REG **Site ID:** T183 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.G. Murtha	Locality: Opposite Saunders Beach turnoff:
Date Desc.: 20/11/70	Elevation: 15 metres
Map Ref.: Sheet No. : 8259 1:100000	Rainfall: 1140
Northing/Long.: 146.602777777778	Runoff: Moderately rapid
Easting/Lat.: -19.2169444444445	Drainage: Moderately well drained

Geology

ExposureType: Undisturbed soil core	Conf. Sub. is Parent. Mat.: No Data
Geol. Ref.: Qa	Substrate Material: No Data

Land Form

Rel/Slope Class: Undulating plains <9m 3-10%	Pattern Type: Stagnant alluvial plain
Morph. Type: No Data	Relief: 2 metres
Elem. Type: Prior stream	Slope Category: No Data
Slope: 0 %	Aspect: No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Haplic Eutrophic Brown Chromosol	Principal Profile Form: Dr2.22
ASC Confidence:	Great Soil Group: Red podzolic soil
All necessary analytical data are available.	

Site Disturbance: Limited clearing, for example selective logging

Vegetation: Low Strata - Tussock grass, 0.51-1m, Mid-dense. *Species includes - Heteropogon contortus
 Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - Eucalyptus drepanophylla, Eucalyptus tessellaris, Eucalyptus polycarpa

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); ; Sandy loam; Massive grade of structure; Moist; Very weak consistence; Gradual change to -
A2	0.1 - 0.2 m	Brown (7.5YR4/2-Moist); ; Sandy loam (Heavy); Moderate grade of structure, 10-20 mm, Angular blocky; Massive grade of structure; Moist; Weak consistence; Very few (0 - 2 %), Ferromanganiferous, , Nodules; Clear change to -
B2	0.2 - 0.3 m	Yellowish red (5YR3/6-Moist); ; Medium clay; Moderate grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence;
B2	0.3 - 0.45 m	Yellowish red (5YR4/8-Moist); , 10YR42, 2-10% , Faint; , 2-10% , Faint; Medium heavy clay; Strong grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Dry; Very strong consistence; Diffuse change to -
B3	0.45 - 0.6 m	Reddish brown (5YR4/4-Moist); , 10YR42, 2-10% , Faint; , 2-10% , Faint; Medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Dry; Very strong consistence; Very few (0 - 2 %), Ferromanganiferous, , Nodules;
B3	0.6 - 0.75 m	Reddish brown (5YR4/4-Moist); , 10YR42, 2-10% , Faint; , 2-10% , Faint; Medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Dry; Very strong consistence; Very few (0 - 2 %), Ferromanganiferous, , Nodules; Diffuse change to -
BC	0.75 - 0.9 m	Brown (7.5YR4/4-Moist); ; Sandy medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Dry; Very strong consistence; Many (20 - 50 %), Ferromanganiferous, , Soft segregations;
BC	0.9 - 1.2 m	Brown (7.5YR4/4-Moist); ; Sandy medium clay (Heavy); Strong grade of structure, 20-50 mm, Angular blocky; Dry; Very strong consistence; 0-2%, Quartz, coarse fragments; Many (20 - 50 %), Ferromanganiferous, , Soft segregations;
C	1.2 - 1.5 m	Brown (7.5YR4/4-Moist); , 10YR52, 2-10% , 0-5mm, Faint; , 2-10% , 0-5mm, Faint; Sandy medium clay (Heavy); Strong grade of structure, 10-20 mm, Angular blocky; Dry; Very strong consistence; 0-2%, Quartz, coarse fragments; Many (20 - 50 %), Ferromanganiferous, , Soft segregations;

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C 1.5 - 1.8 m Brown (7.5YR4/4-Moist); , 10YR52, 2-10% , 15-30mm, Prominent; , 2-10% , 15-30mm, Prominent; Sandy medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Dry; Very strong consistence; 0-2%, Quartz, coarse fragments; Many (20 - 50 %), Ferromanganiferous, , Soft segregations;

Morphological Notes

C Profile continues as above:grades to pale B coarse SCL:

Observation Notes

0-10CM TOP 4CM IS SLIGHTLY DARKER:OLD INFILLED STREAM 4.3M OF CLAY SEDIMENTS OVER STRATIFIED SANDS
~18.3M:

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				Cmol (+)/kg				%
0 - 0.1	6.1A	0.032A	3.1B	1.6	0.37	0.2		6.3C		3.17
0.1 - 0.2	6.3A	0.02A	3.5B	1.8	0.27	0.19		6C		3.17
0.2 - 0.3	6.5A	0.017A	5.4B	3.3	0.32	0.27		9.7C		2.78
0.3 - 0.45	6.6A	0.017A								
0.45 - 0.6	6.7A	0.02A	5.8B	3.8	0.23	0.29		9.2C		3.15
0.6 - 0.75	6.8A	0.023A								
0.75 - 0.9	7A	0.023A								
0.9 - 1.2	7.2A	0.023A								
1.2 - 1.5	7.3A	0.023A								
1.5 - 1.8	7.3A	0.02A								

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Laboratory Analyses Completed for this profile

10A1	Total sulfur - X-ray fluorescence
15A2_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_K	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_MG	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_NA	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
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
5A2	Chloride - 1:5 soil/water extract, automated colour
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9A1	Total phosphorus - X-ray fluorescence
9B_9C	Available P (mg/kg) - Bicarbonate P - 0.5M NaHCO ₃ extractable
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 (%)