

Project Name: Regional
Project Code: REG **Site ID:** T400 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	M.D. Laffan	Locality:	Adjacent to radio transmitter:
Date Desc.:	12/10/84	Elevation:	No Data
Map Ref.:	Sheet No. : 8063 1:100000	Rainfall:	1450
Northing/Long.:	145.554166666667	Runoff:	No Data
Easting/Lat.:	-17.3111111111111	Drainage:	Imperfectly drained

Geology

ExposureType:	Undisturbed soil core	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	QA	Substrate Material:	Undisturbed soil core, Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	Level plain <9m <1%	Pattern Type:	No Data
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	Valley flat	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Manganic Dermosolic Redoxic Hydrosol	Principal Profile Form:	Uf6.31
ASC Confidence:	Great Soil Group:	No suitable group

All necessary analytical data are available.

Site Disturbance: Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation: Low Strata - Sod grass, <0.25m, Closed or dense. *Species includes - None recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.1 m	Dark brown (7.5YR3/2-Moist); ; Light clay; Moderate grade of structure, 2-5 mm, Polyhedral; Strong grade of structure, <2 mm, Subangular blocky; Smooth-ped fabric; Moist; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Common, fine (1-2mm) roots; Gradual, Smooth change to -
A1	0.1 - 0.2 m	Dark brown (7.5YR3/3-Moist); ; Light clay; Moderate grade of structure, 2-5 mm, Polyhedral; Strong grade of structure, <2 mm, Subangular blocky; Smooth-ped fabric; Moist; Many (20 - 50 %), Manganiferous, Medium (2 -6 mm), Nodules; Common, fine (1-2mm) roots; Gradual, Smooth change to -
AB	0.2 - 0.3 m	Dark brown (7.5YR3/4-Moist); ; Light clay; Moderate grade of structure, 2-5 mm, Polyhedral; Strong grade of structure, <2 mm, Subangular blocky; Smooth-ped fabric; Moist; Many (20 - 50 %), Manganiferous, Medium (2 -6 mm), Nodules; Common, fine (1-2mm) roots; Gradual, Smooth change to -
B21	0.3 - 0.6 m	Dark brown (7.5YR3/4-Moist); ; Light clay; Moderate grade of structure, 10-20 mm, Angular blocky; Strong grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Moist; Common (10 - 20 %), Manganiferous, Medium (2 -6 mm), Nodules; Few, fine (1-2mm) roots;
B21	0.6 - 0.75 m	Dark brown (7.5YR3/4-Moist); ; Light clay; Moderate grade of structure, 10-20 mm, Angular blocky; Strong grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Moist; Common (10 - 20 %), Manganiferous, Medium (2 -6 mm), Nodules; Few, fine (1-2mm) roots; Gradual, Smooth change to -
B22	0.75 - 0.9 m	Strong brown (7.5YR3/5-Moist); , 5YR58, 2-10% , 0-5mm, Faint; , 2-10% , 0-5mm, Faint; Light medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Strong grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Moist; Common (10 - 20 %), Manganiferous, Medium (2 -6 mm), Nodules; Few, fine (1-2mm) roots;
B22	0.9 - 1.2 m	Strong brown (7.5YR3/5-Moist); , 5YR58, 2-10% , 0-5mm, Faint; , 2-10% , 0-5mm, Faint; Light medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Strong grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Moist; Common (10 - 20 %), Manganiferous, Medium (2 -6 mm), Nodules; Few, fine (1-2mm) roots; Gradual, Smooth change to -

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B1g	1.2 - 1.5 m	Strong brown (7.5YR3/5-Moist); , 5YR58, 2-10% , 0-5mm, Distinct; , 2-10% , 0-5mm, Distinct; Light medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Moist; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Few, fine (1-2mm) roots; Gradual, Smooth change to -
B2g	1.5 - 1.8 m	Grey (7.5YR5/0-Moist); , 5YR58, 10-20% , 0-5mm, Distinct; , 10-20% , 0-5mm, Distinct; Sandy light clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Moist; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Few, fine (1-2mm) roots;
B2g	1.8 - 1.95 m	Grey (7.5YR5/0-Moist); , 5YR58, 10-20% , 0-5mm, Distinct; , 10-20% , 0-5mm, Distinct; Sandy light clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Moist; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Few, fine (1-2mm) roots;

Morphological Notes

Observation Notes

PARENT MATERIAL IS ALLUVIUM FROM BASALT:

Site Notes

ATHERTON

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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	4.3D 5A	0.164A	5.8H	1.47	0.3	0.26	0.51F	8.8A 21C	2.95 1.24
0.1 - 0.2	5.4A	0.039A							
0.2 - 0.3	5.6A	0.019A							
0.3 - 0.6	4.5D 5.3A	0.015A	2.74H	1.19	0.03	0.03	0.47F	5.2A 11C	0.58 0.27
0.6 - 0.75	5.2A	0.013A							
0.75 - 0.9	4.1D 5.2A	0.013A	0.51H	0.9	0.02	0.07	3.01F	5.4A 11C	1.30 0.64
0.9 - 1.2	4D 5.1A	0.016A	0.13H	0.77	0.02	0.1	4.01F	6.1A 11C	1.64 0.91
1.2 - 1.5	5.3A	0.014A							
1.5 - 1.8	5.4A	0.012A							
1.8 - 2.1	5.4A	0.012A							

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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_ZN	Total element - Zn(mg/kg) - HF/HClO4 Digest
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
15D1_CEC	CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
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
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
4C1	pH of 1:5 soil/1M potassium chloride extract - direct
5A2	Chloride - 1:5 soil/water extract, automated colour
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	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 (%)