

Project Name: Regional
Project Code: REG **Site ID:** T404 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	M.D. Laffan	Locality:	Near Mt.Quincan quarry:
Date Desc.:	17/10/84	Elevation:	No Data
Map Ref.:	Sheet No. : 8063 1:100000	Rainfall:	1450
Northing/Long.:	145.572222222222	Runoff:	No Data
Easting/Lat.:	-17.2933333333333	Drainage:	Poorly 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:	Level plain <9m <1%	Pattern Type:	No Data
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	Valley flat	Slope Category:	No Data
Slope:	<1 %	Aspect:	No Data

Surface Soil Condition (dry): Cracking

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Epipedal Aquic Vertosol		Principal Profile Form:	Ug5.16
ASC Confidence:		Great Soil Group:	Wiesenboden

All necessary analytical data are available.

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

Vegetation: Low Strata - Sod grass, 0.26-0.5m, Closed or dense. *Species includes - None recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.05 m	Black (7.5YR2/0-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Granular; Strong grade of structure, <2 mm, Granular; Smooth-ped fabric; Moderately moist; Strong consistence; Field pH 5.5 (pH meter); Many, fine (1-2mm) roots; Clear, Wavy change to -
A12	0.05 - 0.1 m	Black (7.5YR2/0-Moist); ; Heavy clay; Strong grade of structure, 50-100 mm, Prismatic; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; Field pH 6.5 (pH meter); Many, fine (1-2mm) roots;
A12	0.1 - 0.2 m	Black (7.5YR2/0-Moist); ; Heavy clay; Strong grade of structure, 50-100 mm, Prismatic; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; Field pH 6.5 (pH meter); Many, fine (1-2mm) roots; Gradual, Smooth change to -
A13	0.2 - 0.3 m	Very dark grey (7.5YR3/0-Moist); ; Heavy clay; Strong grade of structure, 50-100 mm, Prismatic; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; Field pH 7 (pH meter); Common, very fine (0-1mm) roots;
A13	0.3 - 0.5 m	Very dark grey (7.5YR3/0-Moist); ; Heavy clay; Strong grade of structure, 50-100 mm, Prismatic; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; Field pH 7 (pH meter); Common, very fine (0-1mm) roots; Gradual, Smooth change to -
B1g	0.5 - 0.6 m	Dark grey (10YR4/1-Moist); , 10YR58, 2-10% , 0-5mm, Faint; , 2-10% , 0-5mm, Faint; Heavy clay; Strong grade of structure, 50-100 mm, Prismatic; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moist; Very firm consistence; Field pH 7.5 (pH meter); Common, very fine (0-1mm) roots;
B1g	0.6 - 0.9 m	Dark grey (10YR4/1-Moist); , 10YR58, 2-10% , 0-5mm, Faint; , 2-10% , 0-5mm, Faint; Heavy clay; Strong grade of structure, 50-100 mm, Prismatic; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moist; Very firm consistence; Field pH 7.5 (pH meter); Common, very fine (0-1mm) roots;
B1g	0.9 - 1.2 m	Dark grey (10YR4/1-Moist); , 10YR58, 2-10% , 0-5mm, Faint; , 2-10% , 0-5mm, Faint; Heavy clay; Strong grade of structure, 50-100 mm, Prismatic; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moist; Very firm consistence; Field pH 7.5 (pH meter); Common, very fine (0-1mm) roots; Gradual, Smooth change to -

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B2g	1.2 - 1.5 m	Dark grey (2.5Y4/0-Moist); , 10YR56, 2-10% , 0-5mm, Distinct; , 2-10% , 0-5mm, Distinct; Heavy clay; Strong grade of structure, 50-100 mm, Prismatic; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moist; Very firm consistence; Field pH 7.5 (pH meter); Few, very fine (0-1mm) roots;
B2g	1.5 - 1.8 m	Dark grey (2.5Y4/0-Moist); , 10YR56, 2-10% , 0-5mm, Distinct; , 2-10% , 0-5mm, Distinct; Heavy clay; Strong grade of structure, 50-100 mm, Prismatic; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moist; Very firm consistence; Field pH 7.5 (pH meter); Few, very fine (0-1mm) roots;

Morphological Notes

Observation Notes

VEGETATION GRASSLAND WITH SOME EUCALYPTS:PARENT MATERIAL ALLUVIUM FROM BASALT:>20CM
SLICKENSIDES PROMINANT:

Site Notes

MT. QUINCAN

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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 - 0.05	4.6D 5.4A	0.217A	24.9H	20.3	1.16	0.34	0.28F	14A	2.43
0.05 - 0.1	5.8A	0.122A							
0.1 - 0.2	6.5A	0.066A							
0.2 - 0.3	6.8A	0.059A							
0.3 - 0.5	5.5D 7.3A	0.066A	25.8H	27	0.19	0.36	<0.05F	50.3A 51C	0.72 0.71
0.5 - 0.6	7.4A	0.076A							
0.6 - 0.9	7.4A	0.07A							
0.9 - 1.2	5.5D 7.5A	0.046A	23.2H	28.1	0.34	0.34	<0.05F	50.1A 63C	0.68 0.54
1.2 - 1.5	7.6A	0.045A							
1.5 - 1.8	7.6A	0.044A							

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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/HClO ₄ Digest
12_HF_FE	Total element - Fe(%) - HF/HClO ₄ Digest
12_HF_MN	Total element - Mn(mg/kg) - HF/HClO ₄ Digest
12_HF_ZN	Total element - Zn(mg/kg) - HF/HClO ₄ 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 (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
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 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 (%)