Project Name: Regional

Project Code: Site ID: T236 Observation ID: 1 REG

Agency Name: CSIRO Division of Soils (QLD)

Site Information

Locality: G.G. Murtha On road to TV stations 7.3KM from Flinders Highway:

Desc. By: Date Desc.: Elevation: 18/01/78 442 metres Sheet No.: 8259 1:100000 Map Ref.: Rainfall: 1200 Northing/Long.: 146.791666666667 Runoff: No Data Easting/Lat.: Drainage: No Data -19.35

Geology

ExposureType: Existing vertical exposure Conf. Sub. is Parent. Mat.: No Data

Geol. Ref.: **Substrate Material:** Existing vertical exposure, 0.8 m C-Pv

deep,Andesite

Land Form

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

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Haplic Eutrophic Red Chromosol **Principal Profile Form:** Dr2.12 **ASC Confidence: Great Soil Group:** N/A

All necessary analytical data are available.

Site Disturbance: No effective disturbance. Natural

Vegetation: Low Strata - Tussock grass, 0.51-1m, Mid-dense. *Species includes - None recorded

Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus drepanophylla, Eucalyptus polycarpa

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Very dark brown (10YR2/2-Moist);; Loam; Moderate grade of structure, 5-10 mm, Angular blocky; Moist; Weak consistence; 2-10%, coarse gravelly, 20-60mm, Gravel, coarse fragments; Abundant
B1	0.1 - 0.2 m	Reddish brown (5YR4/4-Moist); ; Medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Moist; Very firm consistence; 2-10%, coarse gravelly, 20-60mm, Gravel, coarse fragments; CommonClear change to -
B2	0.2 - 0.3 m	Yellowish red (5YR4/6-Moist); ; Medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Moist; Very firm consistence; 2-10%, coarse gravelly, 20-60mm, Gravel, coarse fragments; Few (2 - 10 %), Unidentified, Fine (0 - 2 mm), Nodules;
B2	0.3 - 0.45 m	Yellowish red (5YR4/6-Moist); ; Medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Moist; Very firm consistence;
ВС	0.45 - 0.6 m	Reddish brown (5YR4/4-Moist); ; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moist; Very firm consistence; 20-50%, fine gravelly, 2-6mm, Andesite, coarse fragments; Gradual change to -
ВС	0.6 - 0.8 m	Reddish brown (5YR4/4-Moist); ; Medium clay; 50-90%, large Boulders, >2m, Andesite, coarse fragments;

Morphological Notes

Observation Notes

WEATHERED PM STARTING AT 40CM:60-80CM (.5CM-4CM) ANDESITE GV SET IN MATRIX OF rB MC:

Site Notes

MT STUART

Regional REG Site ID: T236 CSIRO Division of Soils (QLD) Observation ID: 1

Project Name: Project Code: Agency Name:

Laboratory Test Results:

Depth	рН	1:5 EC	Ex Ca	changeable Mg	Cations K	Na E	Exchangeable Acidity	CEC		ECEC	E	SP
m		dS/m	Ca .	wig	ĸ	Cmol (+)					Ç	%
0 - 0.1	6.1A	0.08A	10.8H	5.02	0.6	0.09	0.5F	15.2	Α	17F	0	.59
0.1 - 0.2 0.2 - 0.3 0.3 - 0.45	5.7A 5.9A	<0.05A <0.05A <0.05A	2.13H 2.43H	6.65 7.66	0.11 0.08	0.17 0.24	0.4F 0.3F	16.2. 17.5.		9.5F 10.7F		.05 .37
0.45 - 0.6 0.6 - 0.8	6.5A 6.7A	<0.05A <0.05A <0.05A	2.43⊓	7.00	0.06	0.24	0.3F	17.5	A	10.76	ı	.31
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Pa GV	rticle CS	Size FS	Analysis Silt	
m	%	%	mg/kg		%	%	Mg/m3	٠.		%		·,
0 - 0.1		3.05D			0.16A					23	24	40
0.1 - 0.2		1.94D	5A 4B		0.113A 4				3A	9	20	68
0.2 - 0.3 0.3 - 0.45		1.19D			0.03A 4 12					5 7	18 22	76 68
0.45 - 0.6								24	3A 4A	11	30	55
0.6 - 0.8								52	6A	12	30	51
Depth	COLE										K unsat	
m		Sat.	0.05 Bar		0.5 Bar g - m3/m	1 Bar 3	5 Bar 15	Bar	mm	/h	mm/h	

0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.45 0.45 - 0.6 0.6 - 0.8

Project Name: Regional

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Laboratory Analyses Completed for this profile

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 15E1_MG Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts 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

Effective CEC 15J1

3A1 EC of 1:5 soil/water extract pH of 1:5 soil/water suspension 4A1

6A1_UC Organic carbon (%) - Uncorrected Walkley and Black method

7A2 Total nitrogen - semimicro Kjeldahl , automated colour 9B_9C Available P (mg/kg) - Bicarbonate P - 0.5M NaHCO3 extractable

9G_BSES Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES) Clay (%) - Coventry and Fett pipette method

P10_CF_C

P10_CF_CS Coarse sand (%) - Coventry and Fett pipette method P10_CF_FS P10_CF_Z Fine sand (%) - Coventry and Fett pipette method Silt (%) - Coventry and Fett pipette method

P10_GRAV Gravel (%)