WQR **Project Name:**

Project Code: WQR **B538** Observation ID: 1 Site ID:

CSIRO Division of Soils (QLD) Agency Name:

Site Information

Desc. By: Date Desc.: G.D. Hubble Locality:

Elevation: 01/01/64 183 metres Sheet No.: 8541 1:100000 Map Ref.: Rainfall: 508 Northing/Long.: 148.06666666667 Runoff: Rapid Well drained Easting/Lat.: -28.475 Drainage:

Geology

ExposureType: Conf. Sub. is Parent. Mat.: No Data Soil pit

Geol. Ref.: **Substrate Material:** Auger boring, 1 m deep, Unconsolidated Qs

material (unidentified)

Land Form

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

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Mottled Calcic Red Chromosol Principal Profile Form: Dr2.13

ASC Confidence: Great Soil Group: Red-brown earth

All necessary analytical data are available.

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

Vegetation:

Mid Strata - Tree, , . *Species includes - Geijera parviflora, Eremophila mitchellii Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus populnea

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.18 m	Dark red (2.5YR3/6-Moist); ; Fine sandy loam; Massive grade of structure; Dry; Firm consistence; Field pH 7 (pH meter); Gradual change to -
A12	0.18 - 0.3 m	Dark red (2.5YR3/6-Moist); ; Fine sandy loam; Massive grade of structure; Many (>5 per 0.01m2) Medium (2-5mm) macropores, Dry; Weak consistence; Field pH 6 (pH meter); Clear
B1	0.3 - 0.47 m	Dark red (2.5YR3/6-Moist); ; Sandy medium clay; Weak grade of structure, 10-20 mm, Polyhedral; Few (<1 per 100mm2) macropores, Dry; Strong consistence; Field pH 6.1 (pH meter); Gradual change to -
B2	0.47 - 0.71 m	Dark red (2.5YR3/6-Moist); ; Light clay; Moderate grade of structure, 10-20 mm, Polyhedral; Dry; Strong consistence; Field pH 6.6 (pH meter); Gradual change to -
B2	0.71 - 0.84 m	Red (2.5YR4/6-Moist); , 5YR56; , 10YR63; Light clay; Moderate grade of structure, 10-20 mm, Polyhedral; Dry; Firm consistence; Field pH 7.5 (pH meter); Gradual change to -
B2	0.84 - 0.91 m	Reddish brown (5YR5/4-Moist); , 10YR62; Clay loam; Weak grade of structure, 5-10 mm, Polyhedral; Dry; Firm consistence; Field pH 8.1 (pH meter); Gradual change to -
B31k	0.91 - 1.07 m	Reddish brown (5YR5/4-Moist); , 2.5YR46, 20-50% , 5-15mm, Prominent; , 10YR62, 20-50% , 5-15mm, Prominent; Clay loam; Weak grade of structure, 5-10 mm, Polyhedral; Dry; Firm consistence; Very few (0 - 2 %), Manganiferous, , Soft segregations; Very few (0 - 2 %), Calcareous, , Soft segregations; Field pH 8.7 (pH meter); Gradual change to -
B32k	1.07 - 1.3 m	Light brownish grey (2.5Y6/3-Moist); , 5YR54, 20-50% , 5-15mm, Distinct; , 20-50% , 5-15mm, Distinct; Clay loam (Heavy); Weak grade of structure, 5-10 mm, Polyhedral; Dry; Firm consistence; Very few (0 - 2 %), Manganiferous, , Soft segregations; Very few (0 - 2 %), Calcareous, , Soft segregations; Field pH 8.8 (pH meter); Gradual change to -
B33k	1.35 - 1.83 m	Light brownish grey (2.5Y6/3-Moist); , 5YR54, 20-50% , 5-15mm, Distinct; , 20-50% , 5-15mm, Distinct; Clay loam (Heavy); Weak grade of structure, 5-10 mm, Polyhedral; Dry; Firm consistence; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 8.8 (pH

Morphological Notes

Observation Notes

WQR

Project Name: Project Code: Agency Name: WQR Site ID: B53 CSIRO Division of Soils (QLD) B538 Observation ID: 1

1.35-1.83M B33k - DIFFUSE CARBONATE THROUGHOUT HORIZON - MASS EFFERVESCES WITH ACID:

Site Notes

DIRRANBANDI

Project Name: Project Code: Agency Name: WQR

WQR Site ID: B53 CSIRO Division of Soils (QLD) B538 Observation ID: 1

Laboratory Test Results:

Depth	рН	1:5 EC		hangeable	Cations K	Na	Exchangeable	CEC	E	CEC	E	ESP
m		dS/m	G a	Mg K		Na Acidity Cmol (+)/kg						%
0 - 0.18	7H	0.01B	5.2K	0.98	0.8	0.06	1.6D					
0.18 - 0.3 0.3 - 0.47 0.47 - 0.71	6H 6.1H 6.6H	0.01B 0.01B 0.01B	7.2K	2.8	0.67	0.29	1.4D					
0.71 - 0.84	7.5H	0.02B	40.01/	0.0	4.0	4.4	0.00					
0.84 - 0.91 0.91 - 1.07	8.1H 8.7H	0.03B 0.06B	12.9K	6.6	1.2	1.1	0D					
1.07 - 1.3 1.35 - 1.83	8.8H 8.8H	0.07B 0.1B										
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Pa GV	rticle :	Size A FS	nalysis Silt	
m	%	%	mg/kg	%	%	%	Mg/m3	Ü	00	%	Oiit	Ciay
0 - 0.18		0.56A	18C	0.025F					21C	53	7	17
0.18 - 0.3 0.3 - 0.47		0.27A 0.39A			0.03 0.02				21C 19C	53 48	7 8	16 23
0.47 - 0.71		0.18A			0.02	29B			14C	37	8	40
0.71 - 0.84	0.400	A80.0		0.012	0.02				15C	35	9	39
0.84 - 0.91 0.91 - 1.07	0.19C 0.95C			0.013F 0.013F		IAD			14C 14C	37 36	10 7	37 38
1.07 - 1.3 1.35 - 1.83	5.1C			0.01F					12C	34	8	37

Depth	COLE	Gravimetric/Volumetric Water Contents							K sat	K unsat	
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar			
m				q	/g - m3/m3	3			mm/h	mm/h	

0 - 0.18 0.18 - 0.3 0.3 - 0.47 0.47 - 0.71 0.71 - 0.84 0.84 - 0.91 0.91 - 1.07 1.07 - 1.3 1.35 - 1.83

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Laboratory Analyses Completed for this profile

Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded Hydrogen Cation - meq per 100g of soil - Not recorded 15 NR CA

15_NR_H

Exch. basic cations (K++) - meq per 100g of soil - Not recorded Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded Exch. basic cations (Na++) - meq per 100g of soil - Not recorded 15_NR_K 15 NR MG 15_NR_NA

19B_NR Calcium Carbonate (CaCO3) - Not recorded

2A1 Air-dry moisture content

3_NR Electrical conductivity or soluble salts - Not recorded

pH of soil - Not recorded 4_NR

Water soluble Chloride - Cl(%) - Not recordede 5_NR

Organic carbon - Walkley and Black Total nitrogen (%) - Not recorded 6A1 7_NR Available P (mg/kg) - Not recorded 9_NR 9A_NR Total element - P(%) - Not recorded

Clay (%) - Not recorded

P10_NR_C P10_NR_CS Coarse sand (%) - Not recorded P10_NR_FS Fine sand (%) - Not recorded P10_NR_Z Silt (%) - Not recorded