Project Name: RR

Observation ID: 1 **Project Code:** RR Site ID: **B557**

CSIRO Division of Soils (QLD) Agency Name:

Site Information

Locality: G.D. Hubble Desc. Bv:

Elevation: Date Desc.: 26/09/66 305 metres Sheet No.: 9045 1:100000 Map Ref.: Rainfall: 677

150.516666666667 Northing/Long.: Runoff: Moderately rapid -26.43333333333333 Easting/Lat.: Drainage: Imperfectly drained

Geology

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

Substrate Material: Geol. Ref.: Undisturbed soil core, 1 m deep, Sandstone

Land Form

Rel/Slope Class: No Data Pattern Type: Pediment Morph. Type: Lower-slope Relief: 14 metres Elem. Type: Slope Category: Pediment No Data No Data Aspect: Slope:

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification: N/A **Mapping Unit:** Magnesic Mottled-Hypernatric Brown Sodosol **Principal Profile Form:** Dv3.43

ASC Confidence: Great Soil Group: Solodized solonetz

All necessary analytical data are available.

Site Disturbance: No effective disturbance other than grazing by hoofed animals Vegetation: Low Strata - Tussock grass, , . *Species includes - None recorded

Mid Strata - Tree, , . *Species includes - None recorded

Tall Strata - Tree, 12.01-20m, Closed or dense. *Species includes - Eucalyptus populnea, Eucalyptus

drepanophylla

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

0 - 0.1 m Dark brown (10YR3/3-Moist): ; Fine sandy loam; Massive grade of structure; Coarse (>5mm) macropores, Dry; Weak consistence; 2-10%, fine gravelly, 2-6mm, subrounded, Quartz, coarse

fragments; Field pH 5.4 (pH meter); Clear change to -

Dark greyish brown (10YR4/2-Moist); , 10YR53, 10-20% , 5-15mm, Faint; , 10YR52, 10-20% , 5-A21 0.1 - 0.15 m

15mm, Faint; Fine sandy loam; Massive grade of structure; Very fine (0.075-1mm) macropores, Dry; Weak consistence; 2-10%, fine gravelly, 2-6mm, Substrate material, coarse fragments;

Field pH 5.2 (pH meter); Clear change to -

Yellowish brown (10YR5/4-Moist); Very pale brown (10YR8/4-Dry); : Loamy fine sand; Massive A22 0.15 - 0.2 m

grade of structure; Very fine (0.075-1mm) macropores, Dry; Weak consistence; 2-10%, fine gravelly, 2-6mm, Substrate material, coarse fragments; Field pH 5.7 (pH meter); Abrupt change

B21 0.2 - 0.3 m Yellowish brown (10YR5/5-Moist); , 7.5YR44, 20-50% , 5-15mm, Distinct; , 5YR48, 20-50% , 5-

15mm, Distinct; Medium clay; Strong grade of structure, 100-200 mm, Columnar; 10-20 mm, Angular blocky; Dry; Strong consistence; 2-10%, fine gravelly, 2-6mm, Substrate material, coarse fragments; Very few (0 - 2 %), Manganiferous, , Soft segregations; Field pH 6.5 (pH

meter):

B21 0.3 - 0.53 m Yellowish brown (10YR5/5-Moist); , 7.5YR44, 20-50% , 5-15mm, Faint; , 5YR48, 20-50% , 5-

15mm, Faint; Medium clay; Strong grade of structure, 100-200 mm, Columnar; 10-20 mm, Angular blocky; Dry; Strong consistence; 0-2%, fine gravelly, 2-6mm, Substrate material, coarse fragments; Very few (0 - 2 %), Manganiferous, , Soft segregations; Field pH 8.1 (pH meter);

Diffuse change to -

Yellowish brown (10YR5/4-Moist); , 10YR42, 20-50% , 5-15mm, Faint; , 20-50% , 5-15mm, Faint; **B22** 0.53 - 0.6 m

Light medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moderately moist; Strong consistence; 0-2%, medium gravelly, 6-20mm, Substrate material, coarse fragments; Very few (0 - 2 %), Manganiferous, , Soft segregations; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Field pH 9.7 (pH meter);

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Yellowish brown (10YR5/4-Moist); , 10YR42, 20-50% , 5-15mm, Faint; , 20-50% , 5-15mm, Faint; B22 0.6 - 0.68 m Light medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moderately moist; Strong consistence; 2-10%, medium gravelly, 6-20mm, Substrate material, coarse fragments; Very few (0 - 2 %), Manganiferous, , Soft segregations; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Field pH 9.7 (pH meter); Clear change to -

Dark greyish brown (10YR4/2-Moist); , 10YR54, 20-50% , 5-15mm, Faint; , 10YR51, 20-50% , 5-ВЗ 0.68 - 0.76 m

15mm, Faint; Fine sandy medium clay; Weak grade of structure, 10-20 mm, Angular blocky; Moderately moist; Firm consistence; 0-2%, medium gravelly, 6-20mm, Substrate material, coarse fragments; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Field pH

9.7 (pH meter);

ВЗ 0.76 - 0.9 m Dark greyish brown (10YR4/2-Moist); , 10YR54, 20-50% , 5-15mm, Faint; , 10YR51, 20-50% , 5-

15mm, Faint; Sandy medium clay; Weak grade of structure, 10-20 mm, Angular blocky; Moderately moist; Firm consistence; 0-2%, medium gravelly, 6-20mm, Substrate material, coarse fragments; Very few (0 - 2 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Very few (0 - 2

%), Calcareous, Fine (0 - 2 mm), Soft segregations; Field pH 9.5 (pH meter);

Dark greyish brown (10YR4/2-Moist); , 10YR54, 20-50% , 5-15mm, Faint; , 10YR51, 20-50% , 5-В3 0.9 - 1 m

15mm, Faint; Sandy medium clay; Weak grade of structure, 10-20 mm, Angular blocky; Moderately moist; Firm consistence; 0-2%, medium gravelly, 6-20mm, Substrate material,

coarse fragments; Field pH 9.1 (pH meter);

Morphological Notes

Observation Notes

CALCAREOUS SEGRATIONS INCLUDE SOME NODULES:

Site Notes

BARAKULA

Project Name: Project Code: Agency Name: RR

RR Site ID: B55 CSIRO Division of Soils (QLD) B557 Observation ID: 1

Laboratory Test Results:

Depth	рН	1:5 EC		hangeable Mg	Cations K	Na	Exchangeab Acidity	le CEC	ı	ECEC	E	SP
m		dS/m	a	wig	K	Cmol ((%
0 - 0.1	5.4H	0.015B	1.1K	1.7	0.15	0.42	4.7D					
0.1 - 0.15	5.2H	0.012B	0.1K	1.4	0.06	0.43	3.7D					
0.15 - 0.2	5.7H	0.01B	0.04K	0.94	0.08	0.42	1.3D					
0.2 - 0.3	6.5H	0.033B	0.16K	5.9	0.06	2.7	2.8D					
0.3 - 0.53	8.1H	0.067B										
0.53 - 0.6	9.7H	0.16B	0.77K	6.3	0.06	3.6	0D					
0.6 - 0.68	9.7H	0.19B										
0.68 - 0.76	9.7H	0.17B	0.93K	7.1	0.06	3.9	0.150)				
0.76 - 0.9	9.5H	0.15B										
0.9 - 1	9.1H	0.11B	0.39K	7.8	0.06	6.5	0D					
Depth	CaCO3	Organic	Avail.	Total	Total	Tota	al Bulk	Pa	article	Size A	nalysis	
		С	Р	Р	N	K	Densi		CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m	3		%		
0 - 0.1		1.02E	4C	0.007F	0.07	74B		4	18C	58	9	14
			3B								_	
0.1 - 0.15		0.55E	3C 2B	0.004F	0.04	12B		6	24C	50	8	15
0.15 - 0.2		0.32E	26	0.002F		0.0	05B	10	24C	62	7	8
0.2 - 0.3		0.022		0.004F			07B	6	14C	42	6	37
0.3 - 0.53				0.00		0.0		·			ŭ	٥.
0.53 - 0.6	6.8C							2	12C	47	7	27
0.6 - 0.68												
0.68 - 0.76	1C			0.002F		0.0	07B	1	11C	51	9	26
0.76 - 0.9	_									_	-	_
0.9 - 1	0.1C			0.004F	:	0.0	09B	1	10C	44	11	33
Depth										K unsat		
m		Sat.	v.vo Bar		0.5 Bar g - m3/m	1 Bar 3	5 Bar	15 Bar	mm/	h	mm/h	

0 - 0.1 0.1 - 0.15 0.15 - 0.2 0.2 - 0.3 0.3 - 0.53 0.53 - 0.6 0.6 - 0.68 0.68 - 0.76 0.76 - 0.9 0.9 - 1

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Laboratory Analyses Completed for this profile

10A_NR Total element - S(%) - Not recorded

15_NR_CA Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded

15_NR_H Hydrogen Cation - meq per 100g of soil - Not recorded

15_NR_K
15_NR_MG
15_NR_MG
15_NR_NA
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

17A_NR Total element - K(%) - Not recorded

19B_NR Calcium Carbonate (CaCO3) - Not recorded

2A1 Air-dry moisture content

3_NR Electrical conductivity or soluble salts - Not recorded

4_NR pH of soil - Not recorded

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

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

9G_BSES Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)

P10_GRAV Gravel (%)

P10_NR_C Clay (%) - Not recorded

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