Project Name: RR

Project Code: RR Site ID: B292 Observation ID: 1

Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.D. Hubble Locality:

 Date Desc.:
 01/10/56
 Elevation:
 366 metres

 Map Ref.:
 Sheet No.: 8159
 1:100000
 Rainfall:
 1092

Northing/Long.: 146.458055555556 Runoff: Moderately rapid Easting/Lat.: -19.35 Drainage: Imperfectly drained

Geology

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

Geol. Ref.: Qa Substrate Material: Existing vertical exposure, 1.3 m

deep, Porous, Granodiorite

Land Form

 Rel/Slope Class:
 Rolling rises 9-30m 10-32%
 Pattern Type:
 Rises

 Morph. Type:
 Lower-slope
 Relief:
 No Data

 Elem. Type:
 Hillslope
 Slope Category:
 No Data

 Slope:
 7 %
 Aspect:
 No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/AVertic Mottled-Subnatric Yellow SodosolPrincipal Profile Form:Dy3.43

ASC Confidence: Great Soil Group: Solodized solonetz

All necessary analytical data are available.

<u>Site Disturbance:</u> No effective disturbance other than grazing by hoofed animals

Vegetation: Low Strata - Tussock grass, , . *Species includes - Chloris species, Aristida species

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

Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A2

A1 0 - 0.1 m Greyish brown (10YR5/2-Moist); ; Loamy coarse sand; Weak grade of structure, Platy; Moist; Weak consistence; 2-10%, fine gravelly, 2-6mm, coarse fragments; Field pH 6 (pH meter); Many, fine (1-2mm) roots; Clear change to -

0.1 - 0.28 m Light grey (10YR7/2-Moist); ; Coarse sand; Massive grade of structure; Moderately moist; Weak consistence; 2-10%, fine gravelly, 2-6mm, coarse fragments; Field pH 6.1 (pH meter); Clear

change to -

B21 0.28 - 0.51 m Brownish yellow (10YR6/6-Moist); , 5Y62, 20-50% , 5-15mm, Distinct; , 20-50% , 5-15mm,

Distinct; Medium clay; Strong grade of structure, 50-100 mm, Columnar; Strong grade of structure, Angular blocky; Moderately moist; Very firm consistence; Field pH 7.7 (pH meter);

Gradual change to -

B22 0.51 - 0.66 m Brownish yellow (10YR6/6-Moist); , 5Y63, 20-50% , 5-15mm, Faint; , 20-50% , 5-15mm, Faint;

Medium heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moist; Firm consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 9.3 (pH

meter); Gradual change to -

B23 0.66 - 1.02 m Pale olive (5Y6/4-Moist); ; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky;

Moist; Firm consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 9

(pH meter); Diffuse change to -

B3 1.02 - 1.32 m Pale yellow (5Y8/3-Moist); , 2.5Y44, 20-50% , 15-30mm, Distinct; , 20-50% , 15-30mm, Distinct;

Medium clay; Weak grade of structure, Angular blocky; Moist; Firm consistence; Very few (0 - 2

%), Calcareous, Medium (2 -6 mm), Nodules; Field pH 9.1 (pH meter); Diffuse change to -

1.32 - 1.63 m Pale yellow (5Y8/3-Moist); , 2.5Y44, 20-50% , 15-30mm, Distinct; , 20-50% , 15-30mm, Distinct;

Clay loam, coarse sandy; Massive grade of structure; Moist; Weak consistence; Very few (0 - 2

%), Calcareous, Medium (2 -6 mm), Nodules; Field pH 9.2 (pH meter);

Morphological Notes

Observation Notes

Site Notes

С

Project Name: Project Code: Agency Name: RR

RR Site ID: B29
CSIRO Division of Soils (QLD) B292 Observation ID: 1

HERVEY RANGE

Project Name: Project Code: Agency Name: RR

RR Site ID: B29
CSIRO Division of Soils (QLD) B292 Observation ID: 1

Laboratory Test Results:

Depth	рН	1:5 EC		hangeable			Exchangeable	CEC	1	ECEC	E	SP
m		dS/m	Ca I	Mg	K	Na Cmol (+	Acidity ·)/kg				Ó	%
0 - 0.1 0.1 - 0.28	6H 6.1H	0.01B 0.01B	0.54K	0.26	0.07	0.06	0.7D					
0.28 - 0.51 0.51 - 0.66	7.7H 9.3H	0.02B 0.11B	1.7K	5.9	0.07	1.3	1.3D					
0.66 - 1.02 1.02 - 1.32	9H 9.1H	0.14B 0.17B	1K	14.7	0.11	5.9						
1.32 - 1.63	9.2H	0.11B										
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	l Bulk Density	Pa GV	rticle CS	Size /	Analysis Silt	
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1		0.38A	3C	0.012F				6	55C	33	-	8
0.1 - 0.28 0.28 - 0.51		0.08A 0.21A		0.012F		2B		9	53C	35		6
0.51 - 0.66 0.66 - 1.02	0.31C 0.16C	0.09A			0.01 0.0			0.8 0	33C 24C	25 19	5 5	35 50
1.02 - 1.32 1.32 - 1.63	0.18C 0.07C			0.012F	=			0.5 13	32C 56C	24 22	8 11	36 11
Depth	COLE	COLE Gravimetric/Volumetric Water Contents K sat K unsat										
m		Sat.	0.05 Bar	0.1 Bar g/	0.5 Bar g - m3/m3	1 Bar 3	5 Bar 1	5 Bar	mm/	h	mm/h	

0 - 0.1 0.1 - 0.28 0.28 - 0.51 0.51 - 0.66 0.66 - 1.02 1.02 - 1.32 1.32 - 1.63

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Laboratory Analyses Completed for this profile

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

Hydrogen Cation - meq per 100g of soil - Not recorded 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 Exch. basic cations (Na++) - meq per 100g of soil - Not recorded Calcium Carbonate (CaCO3) - Not recorded 15_NR_K 15_NR_MG 15_NR_NA

19B_NR

2A1 Air-dry moisture content

3_NR Electrical conductivity or soluble salts - Not recorded

4_NR pH of soil - Not recorded

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

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

Gravel (%) P10_GRAV

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