Project Name: RR

Project Code: RR Site ID: B440 Observation ID: 1

Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.D. Hubble Locality:

 Date Desc.:
 01/09/60
 Elevation:
 227 metres

 Map Ref.:
 Sheet No.: 8550
 1:100000
 Rainfall:
 591

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 Sheet No.: 8550
 1:100000
 Rainfall:
 591

 Northing/Long.:
 148.116666666667
 Runoff:
 Moderately rapid

Easting/Lat.: -23.725 Drainage: Moderately well drained

Geology

ExposureType: Soil pit Conf. Sub. is Parent. Mat.: No Data Geol. Ref.: Tb Substrate Material: Basalt

Land Form

Rel/Slope Class:Undulating rises 9-30m 3-10%Pattern Type:No DataMorph. Type:No DataRelief:24 metresElem. Type:No DataSlope Category:No DataSlope:0 %Aspect:No Data

Surface Soil Condition (dry): Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/AEpicalcareous Self-Mulching Black VertosolPrincipal Profile Form:Ug5.12ASC Confidence:Great Soil Group:Black earth

All necessary analytical data are available.

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

Vegetation: Low Strata - , , . *Species includes - Dichanthium sericeum, Heteropogon contortus

Tall Strata - Tree, , Isolated plants. *Species includes - Eucalyptus dichromophloia, Acacia species

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

AB 0 - 0.15 m Very dark brown (7.5YR2/2-Dry); ; Heavy clay; Strong grade of structure, <2 mm, Granular; Dry;

Firm consistence; 0-2%, coarse gravelly, 20-60mm, Basalt, coarse fragments; Field pH 7.3 (pH

meter); Gradual change to -

B2 0.15 - 0.46 m Very dark brown (7.5YR2/2-Dry); ; Heavy clay; Strong grade of structure, 20-50 mm, Angular

blocky; Dry; Strong consistence; 0-2%, Basalt, coarse fragments; Very few (0 - 2%), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 7.7 (pH meter); Gradual change to -

B2 0.46 - 0.61 m Very dark brown (7.5YR2/2-Dry); ; Heavy clay; Strong grade of structure, 50-100 mm, Lenticular;

Moderately moist; Very firm consistence; 2-10%, Basalt, coarse fragments; Few (2 - 10%), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 8 (pH meter); Gradual change to -

C 0.61 - 0.76 m; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Field pH 8.3 (pH meter);

Morphological Notes

Weathered basalt with clay pockets.

Observation Notes

0-15CM GRANULAR GRADING TO BLOCKY STRUCTURE. CARBONATE NODULES ON SURFACE SUGGESTING "PUFF" BUT NO MICRO RELIEF.

Site Notes

EMERALD

Project Name: Project Code: Agency Name: RR

RR Site ID: B44
CSIRO Division of Soils (QLD) B440 Observation ID: 1

Laboratory Test Results:

Depth	рН	1:5 EC		angeable Ig	Cations K	Na	Exchangeable Acidity	CEC		ECEC	E	SP
m		dS/m	Ca IV	ig	K.	Cmol (+					%	, D
0 - 0.15 0.15 - 0.46	7.3H 7.7H	0.03B 0.03B	49.8K	18.2	1.23	0.45	4.8D					
0.46 - 0.61 0.61 - 0.76	8H 8.3H	0.05B 0.05B 0.05B	51.2K	18.1	0.98	0.51	0D					
0.01 - 0.70	0.511	0.00D										
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	l Bulk Density	Pa GV	rticle CS	Size A	Analysis Silt C	Yav
m	%	%	mg/kg	%	%	%	Mg/m3	GV	CS	г э %	Siit C	лау
0 - 0.15		1.2A	4000C	0.496F	0.11	6B		0	5C	30	10	53
0.15 - 0.46 0.46 - 0.61	2.8C	0.9A 0.9A						0 10	6C 2C	28 8	11 20	53 65
0.61 - 0.76	14.10			0.357F					21C	15	17	31
Depth	COLE	COLE Gravimetric/Volumetric Water Contents								ıt	K unsat	
m		Sat.	0.05 Bar	0.1 Bar g/g	0.5 Bar y - m3/m	1 Bar 3	5 Bar 15	Bar	mm/	'h	mm/h	

0 - 0.15 0.15 - 0.46 0.46 - 0.61 0.61 - 0.76

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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 Available P (mg/kg) - Not recorded 9_NR 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