Project Name: RR

Project Code: RR Site ID: B552 Observation ID: 1

Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.D. Hubble Locality: Date Desc.: 02/09/66 Elevation

 Date Desc.:
 02/09/66
 Elevation:
 335 metres

 Map Ref.:
 Sheet No.: 9143
 1:100000
 Rainfall:
 635

 Northing/Long.:
 151.2166666666667
 Runoff:
 Slow

Easting/Lat.: -27.15 Drainage: Imperfectly drained

Geology

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

Geol. Ref.: Qs Substrate Material: Undisturbed soil core, 2 m

deep, Unconsolidated material

Land Form

Rel/Slope Class: Gently undulating plains <9m Pattern Type: Plain

1-3%

Morph. Type:No DataRelief:15 metresElem. Type:FanSlope Category:Gently inclinedSlope:0 %Aspect:No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/AEndocalcareous-Endohypersodic Crusty Grey VertosolPrincipal Profile Form:Ug5.4ASC Confidence:Great Soil Group:Grey clay

All necessary analytical data are available.

Site Disturbance:

Vegetation: Low Strata - Tussock grass, , Sparse. *Species includes - None recorded

Gypseous, Medium (2 -6 mm), Nodules;

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

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

1 TOTTIC	Wildipilology	
A11	0 - 0.01 m	Dark grey (10YR4/1-Moist); ; Light medium clay; Massive grade of structure; Moderately moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Sharp change to -
A12	0.01 - 0.1 m	Very dark grey (10YR3/1-Moist); ; Medium heavy clay; Strong grade of structure, 50-100 mm, Angular blocky; Moist; Slightly plastic; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Clear change to -
A13	0.1 - 0.2 m	Dark grey (10YR4/1-Moist); ; Heavy clay; Strong grade of structure, 50-100 mm, Angular blocky; Moist; Moderately plastic; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Very few (0 - 2%), Manganiferous, Fine (0 - 2 mm), Nodules;
A13	0.2 - 0.3 m	Dark grey (10YR4/1-Moist); ; Heavy clay; Strong grade of structure, 50-100 mm, Angular blocky; Moist; Moderately plastic; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Very few (0 - 2%), Manganiferous, Fine (0 - 2 mm), Nodules;
B2	0.3 - 0.41 m	Dark grey (10YR4/1-Moist); ; Heavy clay; , Lenticular; Strong grade of structure, Angular blocky; Moist; Moderately plastic; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Very few (0 - 2%), Manganiferous, Fine (0 - 2 mm), Nodules; Clear change to -
B2	0.41 - 0.61 m	Dark grey (10YR4/1-Moist); ; Medium heavy clay; , Lenticular; Strong grade of structure, Angular blocky; Moist; Very firm consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Gypseous, Fine (0 - 2 mm), Nodules;
B2	0.61 - 0.91 m	Dark grey (10YR4/1-Moist); ; Heavy clay; , Lenticular; Strong grade of structure, Lenticular; Moist; Very firm consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Gypseous, Medium (2 -6 mm), Nodules; Diffuse change to -
B2	0.91 - 1.22 m	Greyish brown (10YR5/2-Moist); ; Heavy clay; Strong grade of structure, Lenticular; Moist; Firm consistence; 2-10%, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2

mm), Nodules; Very few (0 - 2%), Calcareous, Medium (2 -6 mm), Nodules; Very few (0 - 2%),

•	t Code: RF y Name: CS	R Site ID: B552 Observation ID: 1 SIRO Division of Soils (QLD)
B2	1.22 - 1.52 m	Greyish brown (10YR5/2-Moist); ; Heavy clay; Strong grade of structure, Lenticular; Moist; Firm consistence; 2-10%, Quartz, coarse fragments; Few cutans, <10% of ped faces or walls coated; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Gypseous, Medium (2 -6 mm), Nodules;
B2	1.52 - 1.83 m	Greyish brown (10YR5/2-Moist); ; Heavy clay; Strong grade of structure, Lenticular; Moist; Firm consistence; 0-2%, Quartz, coarse fragments; Few cutans, <10% of ped faces or walls coated; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Gypseous, Medium (2 -6 mm), Nodules;
B2	1.83 - 2.13 m	Greyish brown (10YR5/2-Moist); ; Heavy clay; Strong grade of structure, Lenticular; Moist; Firm consistence; Few cutans, <10% of ped faces or walls coated; Diffuse change to -
B2	2.13 - 2.44 m	Grey (10YR5/1-Moist); , 7.5YR54, 20-50% , 5-15mm, Prominent; , 20-50% , 5-15mm, Prominent; Heavy clay; Strong grade of structure, Lenticular; Moist; Firm consistence; Few cutans, <10% of ped faces or walls coated;

Morphological Notes
Observation Notes
Site Notes
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Laboratory	Test Re	sults:									
Depth	рН	1:5 EC		hangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	EC	CEC	ESP
m		dS/m	Ja	wig	N.	Cmol (%
0 - 0.01	6.6H	0.027B	7.3K	7.1	0.58	0.56	3.1D				
0.01 - 0.1	7.3H	0.028B	-	8.3	0.61	0.56	3.3D				
0.1 - 0.2	7.6H	0.081B	_	10.1	0.33	1.5	4.8D				
0.2 - 0.3	6.7H	0.158B			0.00						
0.3 - 0.41	7.6H	0.233B	15.7K	16.8	0.24	4.2	2D				
0.41 - 0.61	8.4H	0.245B									
0.61 - 0.91	8.4H	0.26B	12.6K	14.8	0.23	3.8	0.52D				
0.91 - 1.22	8.7H	0.28B	14.7K	17.9	0.3	4.3	2D				
1.22 - 1.52	8.6H	0.26B									
1.52 - 1.83	8.5H	0.26B									
1.83 - 2.13	8H	0.27B	14.8K	20.9	0.35	7	0.41D				
2.13 - 2.44	7.7H	0.22B									
Depth	CaCO3	Organic	Avail.	Total	Total	Tota	al Bulk	Pa	rticle Si	ize Anal	ysis
		С	Р	Р	N	K	•	G۷			It Clay
m	%	%	mg/kg	%	%	%	Mg/m3		'	%	
0 - 0.01		1.5A	56B	0.026F	0.1	3B		<1	22C	43	11 22
0.01 - 0.1		0.85A	17B	0.016F	_			<1	21C	31	14 32
0.1 - 0.2		0.38A		0.01F			.2B	<1	18C	28	14 40
0.2 - 0.3						_					
0.3 - 0.41		0.46A		0.015F		0.	.2B	<1	14C	21	12 51
0.41 - 0.61											
0.61 - 0.91	1.1C	0.14A		0.014F	•	0.2	22B	<1	18C	27	13 41
0.91 - 1.22	0.8C	0.09A		0.017F	•	0.2	28B	3	13C	21	14 51
1.22 - 1.52											
1.52 - 1.83											
1.83 - 2.13	0.4C	0.06A		0.019F	•	0.3	34B	<1	12C	20	15 53
2.13 - 2.44											
Depth	COLE			/imetric/Vo				_	K sat	K u	nsat
m		Sat.	0.05 Bar		0.5 Bar g - m3/m3	1 Bar	5 Bar 15	Bar	mm/h	mı	m/h
•••				9/9	y - 1113/1113	,			11111/11	1111	11/11
0 - 0.01											
0.01 - 0.1											
0.1 - 0.2											
0.2 - 0.3											
0.3 - 0.41											
0.44 0.64											

^{0.3 - 0.41} 0.41 - 0.61 0.61 - 0.91 0.91 - 1.22 1.22 - 1.52 1.52 - 1.83 1.83 - 2.13 2.13 - 2.44

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Laboratory Analyses Completed for this profile

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

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

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

Calcium Carbonate (CaCO3) - Not recorded 19B_NR

2_LOI Loss on Ignition (%) 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

6A1 Organic carbon - Walkley and Black Total nitrogen (%) - Not recorded
Total element - P(%) - Not recorded 7_NR $9\overline{A}_NR$

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