Project Name: RR
Project Code: RR **Site ID:** B260 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	W.H. Litchfield	**Locality:**	
Date Desc.:	11/12/54	**Elevation:**	30 metres
Map Ref.:	Sheet No. : 9149 1:100000	**Rainfall:**	863
Northing/Long.:	151.395833333333	**Runoff:**	Moderately rapid
Easting/Lat.:	-24.0763888888889	**Drainage:**	Imperfectly drained

Geology

ExposureType:	Soil pit	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	PRm	**Substrate Material:**	Soil pit, 0.66 m deep,Diorite

Land Form

Rel/Slope Class:	Undulating rises 9-30m 3-10%	**Pattern Type:**	Rises
Morph. Type:	Mid-slope	**Relief:**	18 metres
Elem. Type:	Hillslope	**Slope Category:**	No Data
Slope:	5.25 %	**Aspect:**	No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Calcic Subnatric Brown Sodosol
ASC Confidence:
All necessary analytical data are available.

Mapping Unit: N/A
Principal Profile Form: Db1.43
Great Soil Group: Solodized solonetz

Site Disturbance: Cultivation. Rainfed

Vegetation: Low Strata - Tussock grass, , . *Species includes - Heteropogon contortus
Tall Strata - Tree, , Isolated plants. *Species includes - Eucalyptus dichromophloia, Eucalyptus tessellaris, Eucalyptus crebra

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.09 m	Light brownish grey (10YR6/2-Moist); ; Loamy sand; Massive grade of structure; Moderately moist; Very weak consistence; Field pH 6.4 (pH meter); Common, very fine (0-1mm) roots; Clear change to -
A2	0.09 - 0.15 m	Light brownish grey (2.5Y6/2-Moist); ; Loamy sand; Massive grade of structure; Moderately moist; Weak consistence; Field pH 6.4 (pH meter); Few, very fine (0-1mm) roots; Abrupt, Wavy change to -
B21	0.15 - 0.25 m	Olive brown (2.5Y4/4-Moist); ; Medium clay; Strong grade of structure, 100-200 mm, Columnar; Strong grade of structure, 50-100 mm, Angular blocky; Moderately moist; Strong consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 7.6 (pH meter); Few, very fine (0-1mm) roots; Gradual change to -
B22	0.25 - 0.46 m	Olive brown (2.5Y4/4-Moist); ; Medium clay; Strong grade of structure, Prismatic; Strong grade of structure, 50-100 mm, Angular blocky; Moderately moist; Strong consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Soft segregations; Field pH 8.4 (pH meter); Few, very fine (0-1mm) roots; Gradual change to -
B3	0.46 - 0.66 m	Light yellowish brown (2.5Y6/4-Moist); ; Sandy medium clay; Weak grade of structure, 20-50 mm, Angular blocky; Moderately moist; Very firm consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 9.2 (pH meter); Diffuse change to -
C	0.66 - 0.84 m	Light yellowish brown (2.5Y6/4-Moist); ; Coarse sandy medium clay; Massive grade of structure; Moderately moist; Firm consistence; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 9.3 (pH meter);

Morphological Notes

Observation Notes

Site Notes

RODDS BAY

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations Ca	Mg	K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.09	6.4H	0.019B	2.6K	2.1	0.06	0.16	2.8D			
0.09 - 0.15	6.4H	0.019B								
0.15 - 0.25	7.6H	0.079B	10.3K	14.5	0.04	2.2	2.9D			
0.25 - 0.46	8.4H	0.098B								
0.46 - 0.66	9.2H	0.187B	8K	12.2	0	3.3				
0.66 - 0.84	9.3H	0.187B								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.09		0.96A	7C	0.009F	0.06B			1	36C	46	10	6
0.09 - 0.15												
0.15 - 0.25		0.5A						0.2	22C	28	6	43
0.25 - 0.46												
0.46 - 0.66	7.94C	0.14A						2	6C	51	10	31
0.66 - 0.84												

Depth	COLE	Gravimetric/Volumetric Water Contents Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	K sat	K unsat
m					g/g - m3/m3				mm/h	mm/h
0 - 0.09										
0.09 - 0.15										
0.15 - 0.25										
0.25 - 0.46										
0.46 - 0.66										
0.66 - 0.84										

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Laboratory Analyses Completed for this profile

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
15_NR_MG	Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
15_NR_NA	Exch. basic cations (Na++) - meq per 100g of soil - 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
6A1	Organic carbon - Walkley and Black
7_NR	Total nitrogen (%) - Not recorded
9_NR	Available P (mg/kg) - Not recorded
9A_NR	Total element - P(%) - Not recorded
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