

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 539 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M.G. Cannon	Locality:	
Date Desc.:	19/06/91	Elevation:	No Data
Map Ref.:	Sheet No. : 8157 GPS	Rainfall:	No Data
Northing/Long.:	7785812 AMG zone: 55	Runoff:	Very slow
Easting/Lat.:	414411 Datum: AGD66	Drainage:	Moderately well drained

Geology

Exposure Type:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Undisturbed soil core, Detrital sedimentary rock (unidentified)

Land Form

Rel/Slope Class:	Level plain <9m <1%	Pattern Type:	Plain
Morph. Type:	Crest	Relief:	No Data
Elem. Type:	Plain	Slope Category:	Level
Slope:	1 %	Aspect:	No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Epicalcareous Epipedal Red Vertosol Non-gravelly Medium fine Very fine Deep	Principal Profile Form:	Ug5.37
ASC Confidence:	Great Soil Group:	Red clay
All necessary analytical data are available.		

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

Vegetation: Low Strata - , , . *Species includes - Bothriochloa pertusa, Enneapogon species, Sporobolus species
Mid Strata - Tree, 3.01-6m, Sparse. *Species includes - Eremophila mitchellii, Terminalia oblongata, Lysiphillum carronii
Tall Strata - Tree, 12.01-20m, Very sparse. *Species includes - Acacia harpophylla, Eucalyptus brownii

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.05 m	Dark reddish brown (5YR3/3-Moist); ; Light clay; Strong grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Dry; Weak consistence; , Calcareous, , , , Gypseous, , , Field pH 7.5 (Raupach, 0.05);
B21	0.05 - 0.45 m	Dark reddish brown (5YR3/4-Moist); ; Medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Soft segregations; , Gypseous, , , ; Soil matrix is Moderately calcareous; Field pH 9.5 (Raupach, 0.3);
B22k	0.45 - 0.8 m	Dark reddish brown (5YR3/4-Moist); ; Medium clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Soft segregations; , Gypseous, , , ; Soil matrix is Highly calcareous; Field pH 9.5 (Raupach, 0.6);
BC	0.8 - 1.2 m	Yellowish red (5YR5/6-Moist); , 7.5YR58; Light medium clay; Strong grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Very many (50 - 100 %), Calcareous, Medium (2 -6 mm), Soft segregations; , Gypseous, , , ; Soil matrix is Highly calcareous; Field pH 9.5 (Raupach, 0.9);
C	1.2 - 1.5 m	; Clay loam; Moderate grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Weak consistence; Common (10 - 20 %), Manganiferous, Medium (2 -6 mm), Soft segregations; , Calcareous, , , , Gypseous, , , ; Field pH 9.5 (Raupach, 1.5);

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC		Exchangeable Cations		Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg			%
0 - 0.05	6.8A		9.7B	6.8	0.45	0.37			
0.05 - 0.45	8.6A		13.6J	12.2	0.2	1.7	27.7I		6.14
0.45 - 0.8	8.7A		16B	11	0.19	4.3			
0.8 - 1.2	8.7A								
1.2 - 1.5	8.3A								

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Laboratory Analyses Completed for this profile

10B	Extractable sulfur(mg/kg) - Phosphate extractable sulfur
15A2_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_K	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_MG	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_NA	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15F1_CA	Exchangeable bases by 0.01M silver-thiourea (AgTU)+, no pretreatment for soluble salts
15F1_K	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F1_MG	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F1_NA	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F3	CEC by 0.01M silver-thiourea (AgTU)+
15N1	Exchangeable sodium percentage (ESP)
4A1	pH of 1:5 soil/water suspension