

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 520 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M.G. Cannon	Locality:	
Date Desc.:	11/04/91	Elevation:	240 metres
Map Ref.:	Sheet No. : 8257 GPS	Rainfall:	No Data
Northing/Long.:	7763696 AMG zone: 55	Runoff:	Very slow
Easting/Lat.:	486452 Datum: AGD66	Drainage:	Moderately well drained

Geology

ExposureType:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Undisturbed soil core, Granodiorite

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	Pattern Type:	Plain
Morph. Type:	Mid-slope	Relief:	No Data
Elem. Type:	Plain	Slope Category:	Very gently sloped
Slope:	1 %	Aspect:	220 degrees

Surface Soil Condition (dry): Hardsetting, Surface crust

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Supracalcic Red Chromosol Thin Non-gravelly Clay-loamy Clayey Moderately deep		Principal Profile Form:	Dr2.13
ASC Confidence:		Great Soil Group:	Red-brown earth

All necessary analytical data are available.

Site Disturbance: Limited clearing, for example selective logging

Vegetation: Low Strata - Tussock grass, 0.51-1m, Mid-dense. *Species includes - Bothriochloa pertusa, Heteropogon contortus
Eucalyptus Mid Strata - Tree, 1.01-3m, Isolated plants. *Species includes - Eucalyptus erythrophloia, Acacia bidwillii
Eucalyptus Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - Eucalyptus erythrophloia, Eucalyptus crebra, papuana

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.08 m	Dark reddish brown (5YR3/3-Moist); ; Clay loam (Heavy); Weak grade of structure, 5-10 mm; Earthy fabric; Dry; Very firm consistence; , Calcareous, , , , Gypseous, , ; Field pH 7 (Raupach, 0.05); Clear, Smooth change to -
B2	0.08 - 0.55 m	Dark reddish brown (5YR3/4-Moist); ; Medium clay; Strong grade of structure, 20-50 mm, Prismatic; Strong grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; , Calcareous, , , , Gypseous, , ; Field pH 7 (Raupach, 0.3); Clear, Wavy change to -
BC	0.55 - 0.8 m	Yellowish red (5YR4/6-Moist); ; Medium clay; Weak grade of structure; Earthy fabric; Moderately moist; Firm consistence; 2-10%, medium gravelly, 6-20mm, angular, Granodiorite, coarse fragments; Many (20 - 50 %), Calcareous, Medium (2 -6 mm), Soft segregations; , Gypseous, , ; Soil matrix is Highly calcareous; Field pH 9.5 (Raupach, 0.6); Gradual, Smooth
Ck	0.8 - 0.9 m	; Massive grade of structure; Earthy fabric; Moderately moist; Weak consistence; 50-90%, medium gravelly, 6-20mm, angular, Granodiorite, coarse fragments; Many (20 - 50 %), Calcareous, Medium (2 -6 mm), Soft segregations; , Gypseous, , ; Soil matrix is Highly calcareous; Field pH 9.5 (Raupach, 0.9);

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

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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