

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 55 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M. DeCorte	Locality:	
Date Desc.:	23/07/90	Elevation:	315 metres
Map Ref.:	Sheet No. : 8057 GPS	Rainfall:	No Data
Northing/Long.:	7785052 AMG zone: 55	Runoff:	Very rapid
Easting/Lat.:	384362 Datum: AGD66	Drainage:	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:	Lower-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	Very gently sloped
Slope:	2 %	Aspect:	90 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Haplic Eutrophic Brown Dermosol Medium Slightly gravelly Clayey Clayey Shallow	Principal Profile Form:	Uf6.31
ASC Confidence:	Great Soil Group:	No suitable
Analytical data are incomplete but reasonable confidence.		

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

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Very sparse. *Species includes - Aristida species, Chrysopogon fallax
Mid Strata - Tree, 1.01-3m, Sparse. *Species includes - Lysiphillum carronii, Eremophila mitchellii, Eucalyptus brownii

Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - Eucalyptus crebra, Eucalyptus brownii

Surface Coarse Fragments: 2-10%, coarse gravelly, 20-60mm, angular, Quartz

Profile Morphology

A11	-0.12 - 0 m	Dark brown (7.5YR3/4-Moist); ; , 0-0% ; Medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Weak consistence; , Calcareous, , ; , Gypseous, , ; Common, medium (2-5mm) roots; Sharp, Smooth change to -
A12	0 - 0.12 m	Very dark greyish brown (10YR3/2-Moist); ; , 0-0% ; Light clay; Moderate grade of structure, 20-50 mm, Angular blocky; Strong grade of structure, 2-5 mm, Granular; Smooth-ped fabric; Moderately moist; Firm consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6.8 (Raupach, 0.05); Common, medium (2-5mm) roots; Abrupt, Smooth change to -
B21	0.12 - 0.34 m	Brown (10YR4/3-Moist); Substrate influence, 7.5YR56, 10-20% , 5-15mm, Faint; Substrate influence, 10-20% ; Medium clay; Strong grade of structure, 50-100 mm, Prismatic; 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; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; , Calcareous, , ; , Gypseous, , ; Field pH 6.8 (Raupach, 0.3); Common, medium (2-5mm) roots; Diffuse, Smooth change to -
C	0.34 - 1.5 m	; , Calcareous, , ; , Gypseous, , ; Field pH 9 (Raupach, 0.6);

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.12	6.7A		11.5B	8.8	0.36	0.4				
0.12 - 0.34	6.8A		16.9J	12	0.4	1.5		32.4I		4.63
0.34 - 1.5	7.5A		17B	10	0.35	1.2				

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Laboratory Analyses Completed for this profile

10B	Extractable sulfur(mg/kg) - Phosphate extractable sulfur
15A2_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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