

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 1226 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	Rogers, Gary	Locality:	
Date Desc.:	30/06/92	Elevation:	340 metres
Map Ref.:	Sheet No. : 8059 GPS	Rainfall:	No Data
Northing/Long.:	7860773 AMG zone: 55	Runoff:	Slow
Easting/Lat.:	394470 Datum: AGD66	Drainage:	Imperfectly drained

Geology

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

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	Pattern Type:	Plain
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Plain	Slope Category:	Level
Slope:	1 %	Aspect:	No Data

Surface Soil Condition (dry): Cracking, Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Haplic Epipedal Black Vertosol Non-gravelly Medium fine Medium fine Moderately deep	Principal Profile Form:	Ug5.16
ASC Confidence:	Great Soil Group:	Black earth

Analytical data are incomplete but reasonable confidence.

Site Disturbance: Limited clearing, for example selective logging

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Mid-dense. *Species includes - Dichanthium species, Bothriochloa
pertusa,
Cyperus speciesMid Strata - Shrub, <0.25m, Sparse. *Species includes - Eucalyptus crebra, Eucalyptus
papuana

Tall Strata - Tree, 3.01-6m, Isolated plants. *Species includes - Eucalyptus crebra, Eucalyptus papuana

Surface Coarse Fragments: 0-2%, coarse gravelly, 20-60mm, angular, Quartz

Profile Morphology

A1	0 - 0.03 m	Very dark grey (10YR3/1-Moist); ; Medium clay; Strong grade of structure, 10-20 mm, Polyhedral; Smooth-ped fabric; , Calcareous, , , , Gypseous, , , ; Field pH 6 (Raupach, 0.02); Abrupt change to -
B21	0.03 - 0.3 m	Very dark grey (10YR3/1-Moist); ; Medium heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; , Calcareous, , , , Gypseous, , , ; Field pH 6 (Raupach, 0.2); Gradual change to -
B22	0.3 - 0.6 m	Very dark grey (10YR3/1-Moist); ; Medium heavy clay; Moderate grade of structure, Lenticular; Smooth-ped fabric; Common cutans, 10-50% of ped faces or walls coated; , Calcareous, , , , Gypseous, , , ; Field pH 7 (Raupach, 0.4); Clear change to -
B3	0.6 - 0.8 m	Very dark grey (10YR3/1-Moist); ; Medium clay; Moderate grade of structure, 2-5 mm, Polyhedral; Smooth-ped fabric; 20-50%, fine gravelly, 2-6mm, angular, Metamorphic rock (unidentified), coarse fragments; , Calcareous, , , , Gypseous, , , ; Soil matrix is Highly calcareous; Field pH 8.5 (Raupach, 0.7);

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable	Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	%
						Acidity	
						Cmol (+)/kg	
0 - 0.03	6.5A		26B	13	0.86	0.33	
0.03 - 0.3	7.3A						
0.3 - 0.6	6.5A		32B	14	1.3	0.23	
0.6 - 0.8	7.8A						

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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
15N1	Exchangeable sodium percentage (ESP)
4A1	pH of 1:5 soil/water suspension