

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 548 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By: M.G. Cannon	Locality:
Date Desc.: 20/06/91	Elevation: No Data
Map Ref.: Sheet No. : 8158 GPS	Rainfall: No Data
Northing/Long.: 7801380 AMG zone: 55	Runoff: Very slow
Easting/Lat.: 404996 Datum: AGD66	Drainage: Poorly drained

Geology

ExposureType: No Data	Conf. Sub. is Parent. Mat.: No Data
Geol. Ref.: No Data	Substrate Material: No Data

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: 160 degrees

Surface Soil Condition (dry): Hardsetting, Cracking

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Epicalcareous-Endohypersodic Epipedal Grey Vertosol Non-gravelly Medium fine Very fine Very deep	Principal Profile Form: Ug5.16
ASC Confidence:	Great Soil Group: Grey clay

Analytical data are incomplete but reasonable confidence.

Site Disturbance: Limited clearing, for example selective logging

Vegetation: Low Strata - Tussock grass, 0.51-1m, Mid-dense. *Species includes - Sporobolus species, Enteropogon species,
 Bothriochloa ewartiana Mid Strata - Tree, 3.01-6m, Very sparse. *Species includes - Lysiphillum carronii
 Tall Strata - Tree, 12.01-20m, Sparse. *Species includes - Acacia cambagei, Eucalyptus brownii

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.1 m	Dark grey (10YR4/1-Moist); ; Medium heavy clay; Strong grade of structure, 5-10 mm, Angular blocky; Dry; Very firm consistence; 2-10%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 8.5 (Raupach, 0.05);
B21	0.1 - 0.3 m	Very dark grey (10YR3/1-Moist); ; Medium heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Moderately moist; Very firm consistence; 2-10%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Concretions; , Gypseous, , ; Soil matrix is Moderately calcareous; Field pH 9.5 (Raupach, 0.3);
B22	0.3 - 0.7 m	Dark greyish brown (2.5Y4/2-Moist); ; Medium heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Moderately moist; Very firm consistence; 2-10%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Concretions; , Gypseous, , ; Soil matrix is Moderately calcareous; Field pH 9.5 (Raupach, 0.6);
B23	0.7 - 1.1 m	Brown (10YR5/3-Moist); Substrate influence, 10YR68, 2-10% , 5-15mm, Distinct; Substrate influence, 2-10% ; Medium heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Moderately moist; Very firm consistence; 2-10%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Concretions; , Gypseous, , ; Soil matrix is Moderately calcareous; Field pH 9.5 (Raupach, 0.9);
B24	1.1 - 1.9 m	Light olive brown (2.5Y5/4-Moist); ; Medium heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Moderately moist; Very firm consistence; 2-10%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; Many (20 - 50 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Concretions; , Gypseous, , ; Soil matrix is Moderately calcareous; Field pH 9.5 (Raupach, 1.5);

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Exchangeable Ca Mg	Cations K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0 - 0.1	7.5A		13B	8.3	0.29	0.37			
0.1 - 0.3	7.5A		21.7J	11.5	0.2	0.6	28.9I		2.08
0.3 - 0.7	9.1A		26B	16	0.21	5.9			
0.7 - 1.1	9.3A								
1.1 - 1.9	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
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