

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 860 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M.G. Cannon	Locality:	
Date Desc.:	04/11/91	Elevation:	No Data
Map Ref.:	Sheet No. : 8156 GPS	Rainfall:	No Data
Northing/Long.:	7714756 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	433680 Datum: AGD66	Drainage:	No Data

Geology

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

Land Form

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

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

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Haplic Self-Mulching Black Vertosol Non-gravelly Medium fine Very fine Very deep	Principal Profile Form:	Ug5.16
ASC Confidence: All necessary analytical data are available.	Great Soil Group:	Black earth

Site Disturbance: Complete clearing. Pasture, native or improved, but never cultivated

Vegetation: Low Strata - Tussock grass, 1.01-3m, Mid-dense. *Species includes - Dichanthium species
Mid Strata - , , . *Species includes - None recorded
Tall Strata - Tree, 1.01-3m, Sparse. *Species includes - Terminalia oblongata, Acacia argyrodendron

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.03 m	Very dark grey (10YR3/1-Moist); ; Light medium clay; Moderate grade of structure, 10-20 mm, Subangular blocky; , Calcareous, , , , Gypseous, , ;
A12	0.03 - 0.15 m	Very dark grey (10YR3/1-Moist); ; Medium clay; Weak grade of structure, 10-20 mm, Subangular blocky; , Calcareous, , , , Gypseous, , ; Field pH 7.8 (Raupach, 0.05);
B21	0.15 - 0.7 m	Very dark grey (10YR3/1-Moist); ; Medium clay; Strong grade of structure, 50-100 mm, Lenticular; Common cutans, 10-50% of ped faces or walls coated, prominent; , Calcareous, , , , Gypseous, , ; Field pH 7.3 (Raupach, 0.3);
B22	0.7 - 1.2 m	Very dark greyish brown (2.5Y3/2-Moist); ; Medium clay; Strong grade of structure, 50-100 mm, Lenticular; Common cutans, 10-50% of ped faces or walls coated, prominent; , Calcareous, , , , Gypseous, , ; Field pH 8.7 (Raupach, 0.9); Field pH 8.7 (Raupach, 1.2);
B23	1.2 - 1.4 m	Dark greyish brown (10YR4/2-Moist); ; Medium clay; Weak grade of structure; Common (10 - 20 %), Manganiferous, Fine (0 - 2 mm), Veins; , Calcareous, , , , Gypseous, , ;
B24	1.4 - 1.8 m	Dark greyish brown (2.5Y4/3-Moist); ; Medium clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Common cutans, 10-50% of ped faces or walls coated, prominent; , Calcareous, , , , Gypseous, , ; Field pH 8 (Raupach, 1.8);

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				%
0.03 - 0.15	7.3A									
0.15 - 0.7	8.3A									
1.4 - 1.8	7.4A		24.4J	13	0.4	1.7		40.6I		4.19

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Laboratory Analyses Completed for this profile

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