

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 151 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M. DeCorte	Locality:	
Date Desc.:	17/09/90	Elevation:	260 metres
Map Ref.:	Sheet No. : 8156 GPS	Rainfall:	No Data
Northing/Long.:	7721654 AMG zone: 55	Runoff:	Very rapid
Easting/Lat.:	428996 Datum: AGD66	Drainage:	Imperfectly 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:	Flat	Relief:	No Data
Elem. Type:	Plain	Slope Category:	Very gently sloped
Slope:	2 %	Aspect:	0 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Eutrophic Mottled-Subnatric Brown Sodosol Moderately gravelly Clay-loamy Clayey Very deep	Mapping Unit:	N/A
ASC Confidence:	All necessary analytical data are available.	Principal Profile Form:	Db1.13
		Great Soil Group:	Solodic soil

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

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Sparse. *Species includes - Sporobolus caroli, Eriachne species
Mid Strata - Tree, 1.01-3m, Very sparse. *Species includes - Terminalia oblongata, Acacia harpophylla,

Eremophila

Tall Strata - Tree, 6.01-12m, Mid-dense. *Species includes - Acacia harpophylla

Surface Coarse Fragments: 20-50%, coarse gravelly, 20-60mm, rounded tabular, Rhyolite

Profile Morphology

A1	0 - 0.03 m	Dark brown (10YR3/3-Moist); ; Fine sandy clay loam (Light); Massive grade of structure; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Dry; Firm consistence; 10-20%, medium gravelly, 6-20mm, angular, dispersed, Rhyolite, coarse fragments; , Calcareous, , , Gypseous, , ; Few, very fine (0-1mm) roots;
A3	0.03 - 0.12 m	Dark brown (7.5YR3/4-Moist); ; Light clay; Strong grade of structure, 10-20 mm, Angular blocky; Common (1-5 per 100mm ²) Very fine (0.075-1mm) macropores, Dry; Very firm consistence; 10-20%, coarse gravelly, 20-60mm, rounded tabular, dispersed, Rhyolite, coarse fragments; , Calcareous, , , Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Few, very fine (0-1mm) roots;
B21	0.12 - 0.7 m	Dark brown (10YR3/3-Moist); ; Medium heavy clay; Strong grade of structure, 20-50 mm, Prismatic; Strong grade of structure, 5-10 mm, Angular blocky; Common (1-5 per 100mm ²) Fine (1-2mm) macropores, Dry; Strong consistence; 2-10%, coarse gravelly, 20-60mm, rounded tabular, dispersed, Rhyolite, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; , Calcareous, , , Gypseous, , ; Field pH 8.5 (Raupach, 0.6); Common, fine (1-2mm) roots;
B22c	0.7 - 1.45 m	Brown (10YR4/3-Moist); ; Medium heavy clay; Weak grade of structure, 50-100 mm, Angular blocky; Common (1-5 per 100mm ²) Fine (1-2mm) macropores, Moderately moist; Strong consistence; 0-2%, medium gravelly, 6-20mm, rounded tabular, dispersed, Rhyolite, coarse fragments; Few cutans, <10% of ped faces or walls coated, distinct; Many (20 - 50 %), Manganiferous, Fine (0 - 2 mm), Veins; , Calcareous, , , Gypseous, , ; Field pH 6.5 (Raupach, 0.9);
B23	1.45 - 2 m	Pale brown (10YR6/3-Moist); Mottles, 7.5YR58, 10-20% , 5-15mm, Distinct; Mottles, 10-20% ; Medium clay; Weak grade of structure, 50-100 mm, Angular blocky; Common (1-5 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; Few cutans, <10% of ped faces or walls coated, distinct; , Calcareous, , , Gypseous, , ; Field pH 6 (Raupach, 1.8);

Morphological Notes

Observation Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Exchangeable Na	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg	Acidity		%
0.03 - 0.12	6.6A		7.5B	4.6	1.3	0.3			
0.12 - 0.7	7.7A		6.5J	16.2	0.2	3.4	28.7I		11.85
0.7 - 1.45	6.1A		3.4B	15	0.36	8.8	24B		36.67
			3.4E	14	0.32	5.4			22.50
1.45 - 2	5.4A		3.5J	14.2	0.4	4.3	24I		17.92

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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
15C1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, 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