

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 101 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M. DeCorte	Locality:	
Date Desc.:	10/08/90	Elevation:	190 metres
Map Ref.:	Sheet No. : 8255 GPS	Rainfall:	No Data
Northing/Long.:	7639408 AMG zone: 55	Runoff:	Very slow
Easting/Lat.:	482146 Datum: AGD66	Drainage:	Well 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:	Level plain <9m <1%	Pattern Type:	Plain
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Plain	Slope Category:	Level
Slope:	1 %	Aspect:	150 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Calcic Subnatric Black Sodosol Medium Non-gravelly Clay-loamy Clayey Very deep		Principal Profile Form:	Dd1.33
ASC Confidence:		Great Soil Group:	Solodic soil

All necessary analytical data are available.

Site Disturbance: Limited clearing, for example selective logging

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Sparse. *Species includes - Paspalidium species, Sporobolus species
Mid Strata - Tree, 3.01-6m, Sparse. *Species includes - Terminalia oblongata, Eremophila mitchellii, Lysiphillum

carronii

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

species

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.05 m	Very dark greyish brown (10YR3/2-Moist); ; Clay loam; Strong grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Dry; Firm consistence; , Calcareous, , , Gypseous, , ; Field pH 7.5 (Raupach, 0.05); Many, fine (1-2mm) roots; Abrupt, Smooth change to -
A2j	0.05 - 0.1 m	Very dark grey (10YR3/1-Moist); ; Medium clay; Strong grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Dry; Weak consistence; , Calcareous, , , Gypseous, , ; Many, fine (1-2mm) roots; Abrupt, Smooth change to -
B21	0.1 - 0.35 m	Very dark grey (10YR3/1-Moist); ; Medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Strong grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; , Calcareous, , , Gypseous, , ; Field pH 9.5 (Raupach, 0.3); Common, fine (1-2mm) roots; Clear, Smooth change to -
B22k	0.35 - 1.2 m	Very dark grey (10YR3/1-Moist); ; Medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; 2-10%, medium gravelly, 6-20mm, rounded, dispersed, Detrital sedimentary rock (unidentified), coarse fragments; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Nodules; , Gypseous, , ; Field pH 9.5 (Raupach, 0.9); Field pH 9.5 (Raupach, 1.2); Few, very fine (0-1mm) roots; Clear, Smooth change to -
B23y	1.2 - 1.45 m	Brown (10YR4/3-Moist); Mottles, 10YR32, 10-20% , 0-5mm, Faint; Mottles, 10-20% ; Medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; 2-10%, medium gravelly, 6-20mm, rounded, dispersed, Detrital sedimentary rock (unidentified), coarse fragments; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Few (2 - 10 %), Gypseous, Fine (0 - 2 mm), Crystals; Gradual, Smooth change to -
D	1.45 - 1.7 m	Dark yellowish brown (10YR4/4-Moist); ; Coarse sandy clay loam; Weak grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Weak consistence; 10-20%, medium gravelly, 6-20mm, rounded, dispersed, Detrital sedimentary rock (unidentified), coarse fragments; , Calcareous, , , Gypseous, , ; Field pH 9.5 (Raupach, 1.5);

Morphological Notes

Observation Notes

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Laboratory Test Results:

Depth m	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
		dS/m	Ca	Mg	K	Na Cmol (+)/kg			
0 - 0.05	6.9A		16B	5.1	0.58	0.22			
0.1 - 0.35	9A		19.3J	11.9	0.2	3.5	38.5I		9.09
0.35 - 1.2	8.6A		30B	13	0.19	9.4	34B		27.65
			17E	11	0.17	7.7			22.65
1.2 - 1.45	7.9A		23B	14	0.22	9.9	30B		33.00
			13E	12	0.23	7.3			24.33
1.45 - 1.2	8.5A								

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
		C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		

0 - 0.05
0.1 - 0.35
0.35 - 1.2
1.2 - 1.45
1.45 - 1.2

[illegible]

0 - 0.05
0.1 - 0.35
0.35 - 1.2
1.2 - 1.45
1.45 - 1.2

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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