Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **281** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By:	M. DeCorte	**Locality:**	
Date Desc.:	20/06/91	**Elevation:**	350 metres
Map Ref.:	Sheet No. : 8257 GPS	**Rainfall:**	No Data
Northing/Long.:	7753510 AMG zone: 55	**Runoff:**	Very slow
Easting/Lat.:	448909 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:**	Level
Slope:	1 %	**Aspect:**	180 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Sodic Eutrophic Brown Chromosol Medium Non-gravelly Clay-loamy Clayey Deep

Mapping Unit: N/A
Principal Profile Form: Db1.23

ASC Confidence:
No analytical data are available but confidence is fair.

Great Soil Group: No suitable

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

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Very sparse. *Species includes - Aristida species, Eragrostis species, Chrysopogon fallax Mid Strata - Tree, 1.01-3m, Sparse. *Species includes - Eucalyptus crebra, Eucalyptus erythrophloia

Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - Eucalyptus crebra, Eucalyptus erythrophloia

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.05 m	Dark brown (7.5YR3/2-Moist); ; Clay loam; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.05); Common, very fine (0-1mm) roots; Clear, Smooth change to -
A3	0.05 - 0.25 m	Dark reddish brown (5YR3/4-Moist); ; Light clay; Weak grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Firm consistence; , Calcareous, , ; , Gypseous, , ; Common, very fine (0-1mm) roots; Clear, Smooth
B21	0.25 - 0.8 m	Reddish brown (2.5YR4/4-Moist); ; Medium heavy clay; Strong grade of structure, 10-20 mm, Lenticular; Smooth-ped fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Very firm consistence; Many cutans, >50% of ped faces or walls coated, prominent; Many (20 - 50 %), Manganiferous, Medium (2 -6 mm), Nodules; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; , Gypseous, , ; Field pH 9 (Raupach, 0.6); Few, very fine (0-1mm) roots; Abrupt, Smooth change to -
B22	0.8 - 1.45 m	Yellowish red (5YR5/6-Moist); Mottles, 7.5YR56, 20-50% , 0-5mm, Faint; Mottles, 20-50% ; Medium heavy clay; Weak grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very firm consistence; Many (20 - 50 %), Manganiferous, Medium (2 -6 mm), Nodules; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; , Gypseous, , ; Field pH 9 (Raupach, 1.2); Few, fine (1-2mm) roots;

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.05	5.6A									
0.25 - 0.8	8.1A		17.2J	12.6	0.1	1.4		27.3I		5.13
0.8 - 1.45	8.8A									

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.05												
0.25 - 0.8												
0.8 - 1.45												

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m		g/g - m3/m3							mm/h	mm/h
0 - 0.05										
0.25 - 0.8										
0.8 - 1.45										

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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