Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **361** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By:	M. DeCorte	**Locality:**	
Date Desc.:	02/08/91	**Elevation:**	320 metres
Map Ref.:	Sheet No. : 8157 GPS	**Rainfall:**	No Data
Northing/Long.:	7746212 AMG zone: 55	**Runoff:**	No runoff
Easting/Lat.:	407791 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:**	Gently inclined
Slope:	0 %	**Aspect:**	240 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Eutrophic Mottled-Subnatric Brown Sodosol Thick Non-gravelly Sandy Clayey Moderately deep

Mapping Unit: N/A
Principal Profile Form: Db2.33

ASC Confidence:
All necessary analytical data are available.

Great Soil Group: Solodic soil

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

Vegetation: Low Strata - Tussock grass, 0.51-1m, Sparse. *Species includes - Eriachne species, Chrysopogon fallax, Aristida

Mid Strata - Tree, 3.01-6m, Sparse. *Species includes - Eucalyptus crebra, Eremophila mitchellii, Eucalyptus brownii

Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus crebra, Eucalyptus brownii

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.08 m	Dark brown (7.5YR3/4-Moist); ; Loamy fine sand; Massive grade of structure; Dry; Firm consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Clear, Smooth change to -
A12	0.08 - 0.32 m	Yellowish red (5YR4/6-Moist); ; Loamy fine sand; Massive grade of structure; Dry; Firm consistence; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 0.3); Gradual, Smooth change to -
A21	0.32 - 0.43 m	Yellowish red (5YR4/6-Moist); ; Loamy fine sand; Massive grade of structure; Dry; Very firm consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; , Calcareous, , ; , Gypseous, , ; Clear, Smooth change to -
A22e	0.43 - 0.5 m	Brown (7.5YR4/4-Moist); ; Loamy fine sand; Massive grade of structure; Dry; Strong consistence; 0-2%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; , Calcareous, , ; , Gypseous, , ; Abrupt, Smooth change to -
B21	0.5 - 0.7 m	Brown (7.5YR4/4-Moist); Mottles, 5YR58, 20-50% , 0-5mm, Distinct; Mottles, 20-50% ; Light clay; Strong grade of structure, 20-50 mm, Angular blocky; Dry; Strong consistence; 0-2%, medium gravelly, 6-20mm, angular, dispersed, Quartz, coarse fragments; Common (10 - 20 %), Ferromanganiferous, Medium (2 -6 mm), Soft segregations; , Calcareous, , ; , Gypseous, , ; Field pH 8 (Raupach, 0.6);

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 - 0.08	6.1A									
0.08 - 0.32	6.5A									
0.5 - 0.7	7.6A		3.6J	7.4	0.1	1.8		15.7I		11.46

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 - 0.08												
0.08 - 0.32												
0.5 - 0.7												

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 - 0.08										
0.08 - 0.32										
0.5 - 0.7										

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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