Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **515** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By:	M.G. Cannon	**Locality:**	
Date Desc.:	10/04/91	**Elevation:**	280 metres
Map Ref.:	Sheet No. : 8158 GPS	**Rainfall:**	No Data
Northing/Long.:	7795110 AMG zone: 55	**Runoff:**	Very slow
Easting/Lat.:	438551 Datum: AGD66	**Drainage:**	Rapidly drained

Geology

ExposureType:	No Data	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	No Data	**Substrate Material:**	Undisturbed soil core, Granite

Land Form

Rel/Slope Class:	Undulating low hills 30-90m 3-10%	**Pattern Type:**	Low hills
Morph. Type:	Crest	**Relief:**	No Data
Elem. Type:	Hillcrest	**Slope Category:**	Very gently sloped
Slope:	3 %	**Aspect:**	30 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Eutrophic Mottled-Mesonatric Yellow Sodosol Thick Non-gravelly Sandy Clayey Moderately deep

Mapping Unit: N/A
Principal Profile Form: Dy3.82

ASC Confidence:
All necessary analytical data are available.

Great Soil Group: Solodic soil

Site Disturbance: Limited clearing, for example selective logging

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Mid-dense. *Species includes - Heteropogon contortus, Eragrostis species,

Chrysopogon fallax Mid Strata - Tree, 3.01-6m, Isolated plants. *Species includes - Melaleuca species

Tall Strata - Tree, 12.01-20m, Very sparse. *Species includes - Eucalyptus crebra, Eucalyptus polycarpa, Eucalyptus

papuana

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.08 m	Dark greyish brown (10YR4/2-Moist); ; Sand; Massive grade of structure; Dry; Very weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.05); Few, very fine (0-1mm) roots; Clear, Smooth change to -
A21j	0.08 - 0.24 m	Light yellowish brown (10YR6/4-Moist); ; Sand; Massive grade of structure; Dry; Very weak consistence; , Calcareous, , ; , Gypseous, , ; Clear, Smooth change to -
A22e	0.24 - 0.5 m	Yellow (10YR7/6-Moist); ; Sand; Massive grade of structure; Dry; Very weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.3); Abrupt, Smooth change to -
B2	0.5 - 0.6 m	Light yellowish brown (10YR6/4-Moist); Mottles, 10YR68, 20-50% , 5-15mm, Distinct; Mottles, 20-50% ; Coarse sandy medium clay; Weak grade of structure, 20-50 mm, Subangular blocky; Dry; Very strong consistence; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 0.6); Smooth change to -
C	0.6 - 0.65 m	; Dry; Very strong consistence; , Calcareous, , ; , Gypseous, , ;

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	6.3A									
0.24 - 0.5	7A									
0.5 - 0.6	7A		3.7J	4.6	0.1	1.8		9.3I		19.35

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												
0.24 - 0.5												
0.5 - 0.6												

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										
0.24 - 0.5										
0.5 - 0.6										

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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