Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **6** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By:	M. DeCorte	**Locality:**	
Date Desc.:	20/06/90	**Elevation:**	310 metres
Map Ref.:	Sheet No. : 8257 GPS	**Rainfall:**	No Data
Northing/Long.:	7780662 AMG zone: 55	**Runoff:**	Moderately rapid
Easting/Lat.:	477635 Datum: AGD66	**Drainage:**	Imperfectly drained

Geology

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

Land Form

Rel/Slope Class:	Undulating rises 9-30m 3-10%	**Pattern Type:**	Rises
Morph. Type:	Mid-slope	**Relief:**	No Data
Elem. Type:	Hillslope	**Slope Category:**	Gently inclined
Slope:	5 %	**Aspect:**	300 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Mottled Eutrophic Red Chromosol Medium Slightly gravelly Loamy Clay-loamy Moderately deep

Mapping Unit: N/A
Principal Profile Form: Dr2.12

ASC Confidence:
Analytical data are incomplete but reasonable confidence.

Great Soil Group: Non-calcic brown soil

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

Vegetation:
Low Strata - , , . *Species includes - Bothriochloa pertusa, Heteropogon contortus
Mid Strata - , , . *Species includes - Eucalyptus erythrophloia
Tall Strata - Tree, 12.01-20m, Sparse. *Species includes - Eucalyptus erythrophloia, Eucalyptus crebra

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.15 m	Very dark greyish brown (10YR3/2-Moist); ; Coarse sandy loam; Moderate grade of structure, 2-5 mm, Granular; Earthy fabric; Moist; Very weak consistence; 2-10%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.05); Common, medium (2-5mm) roots; Gradual, Smooth change to -
B21t	0.15 - 0.55 m	Yellowish red (5YR4/6-Moist); ; Light clay; Strong grade of structure, 20-50 mm, Prismatic; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moist; Very firm consistence; 0-2%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; , Calcareous, , ; , Gypseous, , ; Field pH 6.2 (Raupach, 0.3); Common, fine (1-2mm) roots; Abrupt, Smooth change to -
B3	0.55 - 0.72 m	Strong brown (7.5YR5/8-Moist); Substrate influence, 5YR54, 20-50% , 5-15mm, Distinct; Substrate influence, 10YR31, 20-50% ; Clay loam; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moist; Very firm consistence; 2-10%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Concretions; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 0.6); Few, very fine (0-1mm) roots; Clear, Smooth change to -
C	0.72 - 0.9 m	; Weak grade of structure, 5-10 mm, Polyhedral; Moist; Firm consistence; 10-20%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Concretions; , Calcareous, , ; , Gypseous, , ; Field pH 7.5 (Raupach, 0.9);

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.15	6.1A		5.1B	1.3	0.46	0.04				
0.15 - 0.55	8.1A		8.8B	3.3	0.21	0.19		17.2I		1.10
			10.2J	3.2	0.2	0				0.00
0.72 - 0.9	8.4A		8.9B	3.2	0.1	0.22				

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 - 0.15												
0.15 - 0.55												
0.72 - 0.9												

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 - 0.15										
0.15 - 0.55										
0.72 - 0.9										

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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
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