Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD **Project Name:**

Project Code: Observation ID: 1 Site ID: 841

Agency Name: **QLD Department of Primary Industries**

Site Information

Locality: M.G. Cannon

Desc. By: Date Desc.: 23/10/91 Elevation: 260 metres Map Ref.: Sheet No.: 8156 GPS Rainfall: No Data Northing/Long.: Runoff: 7683217 AMG zone: 55 No Data 402987 Datum: AGD66 Easting/Lat.: Drainage: No Data

Geology

ExposureType: No Data Conf. Sub. is Parent. Mat.: No Data

Substrate Material: Geol. Ref.: Undisturbed soil core, No Data No Data

Land Form

Rel/Slope Class: Level plain <9m <1% Pattern Type: Plain Morph. Type: Elem. Type: Relief: No Data Slope Category: Plain Level 1 % Aspect: No Data Slope:

Surface Soil Condition (dry): Cracking, Self-mulching

Erosion:

Soil Classification

Australian Soil Classification: N/A Mapping Unit: Epicalcareous Self-Mulching Grev Vertosol Non-gravelly **Principal Profile Form:** Ug5.24

Medium fine Very fine Very deep

ASC Confidence: Great Soil Group: Grey clay

All necessary analytical data are available.

Site Disturbance: Limited clearing, for example selective logging Vegetation: Low Strata - , , . *Species includes - Aristida species

Mid Strata - Tree, 1.01-3m, Closed or dense. *Species includes - Lysiphillum carronii, Acacia cambagei

Tall Strata - Tree, 3.01-6m, Closed or dense. *Species includes - Acacia cambagei

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.05 m	Dark grey (5YR4/1-Moist); ; Strong grade of structure, 5-10 mm, Subangular blocky; , Calcareous, , ; , Gypseous, , ; Field pH 9 (Raupach, 0.05); Clear change to -
A12	0.05 - 0.12 m	Dark grey (5YR4/1-Moist); ; Strong grade of structure, 50-100 mm; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Concretions; , Gypseous, , ; Clear change to -
A13	0.12 - 0.44 m	Dark grey (5YR4/1-Moist); ; Strong grade of structure, 50-100 mm; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Concretions; , Gypseous, , ; Field pH 9.5 (Raupach, 0.3); Diffuse change to -
B21	0.44 - 1.5 m	Dark grey (5YR4/1-Moist); ; Strong grade of structure, 10-20 mm; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Concretions; , Gypseous, , ; Field pH 9.5 (Raupach, 0.9); Field pH 9.5 (Raupach, 1.5); Diffuse change to -
B22	1.5 - 1.9 m	Reddish brown (2.5YR5/3-Moist); ; Strong grade of structure, 10-20 mm; Common (10 - 20 %), Manganiferous, Medium (2 -6 mm), Soft segregations; , Calcareous, , ; , Gypseous, , ;

Morphological Notes

Observation Notes

Site Notes

Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD DLR Site ID: 841 Observation ID: 1

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Laboratory Test Results:

- LI	1.5.50	Fw.		Cations	-	vahanasahla	CEC		FCFC		ESP
рн	1:5 EC						CEC		ECEC		ESP
	dS/m		J								%
7.5A											
7.2A											
).44 - 1.5 8.4A		26.5J 14.9		0.1	2.5		48.9I			5.11	
7.7A											
							_				
CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Pa GV	rticle	Size	-	is Clay
%	%	mg/kg	%	%	%	Mg/m3			%		•
COLE		Gravimetric/Volumetric V			ater Contents			K sat		K unsat	
	Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar 15 B	Bar				
		g/	g - m3/m3	3		mm		ı/h	mm/h		
	7.2A 8.4A 7.7A CaCO3 %	7.5A 7.2A 8.4A 7.7A CaCO3 Organic C % %	Ca dS/m 7.5A 7.2A 8.4A 7.7A CaCO3 Organic Avail. C P mg/kg COLE Grav	Ca Mg dS/m 7.5A 7.2A 8.4A 7.7A CaCO3 Organic Avail. Total C P P mg/kg % COLE Gravimetric/Vo Sat. 0.05 Bar 0.1 Bar	Ca Mg K dS/m 7.5A 7.2A 8.4A 7.7A CaCO3 Organic Avail. Total Total C P P N mg/kg % % COLE Gravimetric/Volumetric W Sat. 0.05 Bar 0.1 Bar 0.5 Bar	7.5A 7.2A 8.4A 7.7A CaCO3 Organic Avail. Total Total Total C P P N K mg/kg % % % COLE Gravimetric/Volumetric Water Conte	Ca Mg K Na Acidity Cmol (+)/kg 7.5A 7.2A 8.4A 26.5J 14.9 0.1 2.5 7.7A CaCO3 Organic Avail. Total Total Bulk C P P N K Density % % mg/kg % % % Mg/m3 COLE Gravimetric/Volumetric Water Contents Sat. 0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15 I	Ca Mg K Na Acidity Cmol (+)/kg 7.5A 7.2A 8.4A 26.5J 14.9 0.1 2.5 48.9 7.7A CaCO3 Organic Avail. Total Total Bulk Pa C P P N K Density GV % % mg/kg % % % Mg/m3 COLE Gravimetric/Volumetric Water Contents Sat. 0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15 Bar	Ca Mg K Na Acidity Cmol (+)/kg 7.5A 7.2A 8.4A 26.5J 14.9 0.1 2.5 48.9I 7.7A CaCO3 Organic Avail. Total Total Bulk Particle C P P N K Density GV CS % % mg/kg % % % Mg/m3 COLE Gravimetric/Volumetric Water Contents K s Sat. 0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15 Bar	Ca Mg K Na Acidity Cmol (+)/kg 7.5A 7.2A 8.4A 7.7A CaCO3 Organic Avail. Total Total Bulk Particle Size C P P N K Density GV CS FS % % mg/kg % % % Mg/m3 % COLE Gravimetric/Volumetric Water Contents K sat Sat. 0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15 Bar	Ca Mg K Na Acidity Cmol (+)/kg 7.5A 7.2A 8.4A 26.5J 14.9 0.1 2.5 48.9I 7.7A CaCO3 Organic Avail. Total Total Bulk Particle Size Analysi C P P N K Density GV CS FS Silt % % mg/kg % % % Mg/m3 % COLE Gravimetric/Volumetric Water Contents K sat K unsa Sat. 0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15 Bar

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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 Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts 15F1_K 15F1_MG Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts CEC by 0.01M silver-thiourea (AgTU)+ 15F1_NA

15F3 15N1 Exchangeable sodium percentage (ESP)

4A1 pH of 1:5 soil/water suspension