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

Project Code: Observation ID: 1 Site ID: 815

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

Site Information

Desc. By: M.G. Cannon Locality:

Date Desc.: 17/10/91 Elevation: 180 metres Map Ref.: Sheet No.: 8156 GPS Rainfall: No Data Northing/Long.: 7684035 AMG zone: 55 Runoff: No Data 431754 Datum: AGD66 No Data Easting/Lat.: Drainage:

Geology

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

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

Land Form

Rel/Slope Class: Gently undulating plains <9m 1-Pattern Type: Alluvial plain

Flat Morph. Type: Relief: No Data

Very gently sloped Elem. Type: Plain Slope Category:

2 % Aspect: No Data Slope:

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Lithocalcic Subnatric Brown Sodosol Medium Non-gravelly Db1.43 **Principal Profile Form:**

Loamy Clayey Moderately deep

ASC Confidence: Great Soil Group: Solodic soil

All necessary analytical data are available.

<u>Site Disturbance:</u> No effective disturbance other than grazing by hoofed animals

Vegetation: Low Strata - , , . *Species includes - None recorded

Mid Strata - , , . *Species includes - None recorded

Tall Strata - Tree, 6.01-12m, Mid-dense. *Species includes - Acacia argyrodendron

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11j	0 - 0.03 m	Brown (7.5YR4/3-Moist); , 7.5YR54; Fine sandy loam (Heavy); Massive grade of structure; Earthy fabric; Dry; Weak consistence; , Calcareous, , ; , Gypseous, , ;
A21j	0.03 - 0.25 m	Brown (7.5YR4/3-Moist); , 7.5YR54; Fine sandy loam (Heavy); Massive grade of structure; Earthy fabric; Dry; Weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 5.8 (Raupach,
A22e	0.25 - 0.27 m	Brown (7.5YR4/3-Moist); , 7.5YR54; Fine sandy loam (Heavy); Massive grade of structure; Earthy fabric; Dry; Weak consistence; , Calcareous, , ; , Gypseous, , ;
B21	0.27 - 0.4 m	Brown (7.5YR4/3-Moist); ; Fine sandy light medium clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Dry; Very strong consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.3);
B22	0.4 - 0.6 m	Brown (7.5YR5/4-Moist); ; Light medium clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Dry; Firm consistence; , Calcareous, , ; , Gypseous, , ; Field pH 9.5 (Raupach, 0.6);
B23	0.6 - 0.8 m	Brown (7.5YR5/4-Moist); ; Light medium clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Dry; Firm consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; , Gypseous, , ;
B24k	0.8 - 0.9 m	Pinkish grey (7.5YR6/3-Moist); ; Light medium clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Dry; Firm consistence; Very many (50 - 100 %), Calcareous, Medium (2 -6 mm), Nodules; , Gypseous, , ; Field pH 9.5 (Raupach, 0.9);

Morphological Notes

Observation Notes

Site Notes

Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD DLR Site ID: 815 Observation ID: 1

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Laboratory Test Results:

Laboratory rest Results.											
pН	1:5 EC					Exchangeable Na Acidity		ECEC	ESP		
	dS/m		9	••					%		
5.2A			0.0	0.4	0.0		40.01		0.74		
6.1A 8.7A		4.4J	3.3	0.1	0.9		10.31		8.74		
CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density			Analysis Silt Clay		
%	%	mg/kg	%	%	%	Mg/m3	0. 00	%	J J,		
COLE		Gravimetric/Volumetric Water Contents				Ks	sat	K unsat			
	Sat.	0.05 Bar		0.5 Bar g - m3/m3	1 Bar 3	5 Bar 15 I		ım/h	mm/h		
	5.2A 6.1A 8.7A CaCO3	pH 1:5 EC dS/m 5.2A 6.1A 8.7A CaCO3 Organic C % %	pH 1:5 EC Exch dS/m 5.2A 6.1A 8.7A CaCO3 Organic Avail. C P mg/kg COLE Gravi	pH 1:5 EC dS/m Exchangeable Ca M/g 5.2A 6.1A 4.4J 3.3 8.7A 4.4J 3.3 CaCO3 Organic C P P P M/g/s % Yes CoLE Gravimetric/Vo Sat. 0.05 Bar 0.1 Bar	pH 1:5 EC dS/m Exchangeable Cations Ca Mg K 5.2A 6.1A 8.7A 4.4J 3.3 0.1 CaCO3 Organic C W Mg K Avail. Total Total C P P N M Mg/kg % % % Mg K Mg K 1.1	pH 1:5 EC dS/m Exchangeable Cations Mg K Na Cmol (+)/h Exchangeable Cations Na Cmol (+)/h Exchangeable Cations Na Cmol (+)/h 5.2A 6.1A 8.7A 4.4J 3.3 0.1 0.9 CaCO3 Organic C P P P N K M Mg/kg % % % % Avail. Total Total Total Total K Mg/kg % % % % CaCO3 Organic C P P P N K Mg/kg % % % % K Mg/kg % % % % COLE Gravimetric/Volumetric Water Context Gravimetric/Volumetric Water Context	pH 1:5 EC Exchangeable Cations Exchangeable Na Acidity Ca Mg K Na Acidity Cmol (+)/kg 5.2A 6.1A 4.4J 3.3 0.1 0.9 8.7A Avail. Total Total Total Bulk CaCO3 Organic Avail. Total Total Bulk C P P P N K Density % Mg/m3 COLE Gravimetric/Volumetric Water Contents Sat. 0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15	pH 1:5 EC dS/m Exchangeable Cations Ca Mg K Na Acidity Cmol (+)/kg Exchangeable Cations Na Acidity Cmol (+)/kg CEC Na Acidity Cmol (+)/kg 5.2A 6.1A 8.7A 4.4J 3.3 0.1 0.9 10.3I 10.3I CaCO3 Organic C C P P P N K Density GV CS Mg/m3 Avail. Total Total Total Bulk Density GV CS Mg/m3 Particle GV CS Mg/m3 COLE Sat. 0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15 Bar K	pH 1:5 EC Exchangeable Cations Exchangeable CEC ECCO Ca Mg K Na Acidity Cmol (+)/kg Cmol (+)/kg 10.31 5.2A 6.1A 4.4J 3.3 0.1 0.9 10.31 8.7A Organic Avail. Total Total Bulk Particle Size C P P N K Density GV CS FS % % % % Mg/m3 % %		

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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