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

Project Code: DLR Site ID: 285 Observation ID: 1

Agency Name: QLD Department of Primary Industries

Site Information

Desc. By: M. DeCorte Locality:

Date Desc.: Elevation: 01/07/91 240 metres Map Ref.: Sheet No.: 8257 GPS Rainfall: No Data Northing/Long.: 7768991 AMG zone: 55 Runoff: Verv slow Easting/Lat.: 452195 Datum: AGD66 Drainage: Well drained

Geology

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

Geol. Ref.: No Data Substrate Material: Existing vertical exposure, Gabbro

**Land Form** 

Rel/Slope Class: Gently undulating rises 9-30m Pattern Type: Rises

1-3%

Morph. Type:Mid-slopeRelief:No DataElem. Type:HillslopeSlope Category:Gently inclinedSlope:4 %Aspect:110 degrees

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

**Erosion:** 

**Soil Classification** 

Australian Soil Classification:Mapping Unit:N/AEndocalcareous Self-Mulching Red Vertosol Medium GravellyPrincipal Profile Form:Ug5.36

Medium fine Very fine Moderately deep

ASC Confidence: Great Soil Group: Red clay

All necessary analytical data are available.

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

Vegetation: Low Strata - Tussock grass, 0.51-1m, Mid-dense. \*Species includes - Bothriochloa pertusa, Bothriochloa

ewartiana

Mid Strata - Tree, 1.01-3m, Isolated plants. \*Species includes - Bursaria incana

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

Eucalyptus

Surface Coarse Fragments: 10-20%, coarse gravelly, 20-60mm, rounded, Quartz

**Profile Morphology** 

A11 0 - 0.02 m Dark brown (7.5YR3/2-Moist); ; Medium clay; Strong grade of structure, 2-5 mm, Granular; Smooth-ped fabric; Dry; Weak consistence; 0-2%, medium gravelly, 6-20mm, subangular, dispersed, Quartz, coarse fragments; , Calcareous, , ; , Gypseous, , ; Many, very fine (0-1mm)

roots; Clear, Smooth change to -

A12 0.02 - 0.1 m Dark brown (7.5YR3/2-Moist); ; Medium clay; Strong grade of structure, 10-20 mm, Angular

blocky; Smooth-ped fabric; Medium, (5 - 10) mm crack; Dry; Strong consistence; , Calcareous, , , , Gypseous, , ; Field pH 8.5 (Raupach, 0.05); Many, very fine (0-1mm) roots; Clear, Wavy

change to -

B2 0.1 - 0.4 m Yellowish red (5YR4/6-Moist); ; Medium clay; Strong grade of structure, 10-20 mm, Angular

blocky; Smooth-ped fabric; Medium, (5 - 10) mm crack; Dry; Strong consistence; , Calcareous, , ; , Gypseous, , ; Soil matrix is Slightly calcareous; Field pH 7.5 (Raupach, 0.3); Clear, Smooth

change to -

B3 0.4 - 0.6 m Yellowish brown (10YR5/4-Moist); ; Medium clay; Strong grade of structure, 10-20 mm, Angular

blocky; Smooth-ped fabric; Dry; Strong consistence; Many (20 - 50 %), Calcareous, Medium (2

-6 mm), Nodules; , Gypseous, , ; Field pH 8.5 (Raupach, 0.6); Clear, Wavy change to -

**Morphological Notes** 

**Observation Notes** 

**Site Notes** 

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## **Laboratory Test Results:**

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pН	1:5 EC			Cations K	Exchangeable Na Acidity		CEC		ECEC	E	SP
	dS/m		J							%	
8.3A		22 7 1	12.6	0.3	0.1		19.7			0	.21
8.5A		33.73	12.0	0.5	0.1		40.7	ı		U	.21
CaCO3	Organic	Avail.	Total	Total	Total	Bulk				-	
%	С %	P mg/kg	Р %	N %	<b>К</b> %	Density Mg/m3	GV	cs	FS %	Silt	Clay
COLE		Gravimetric/Volumetric Water Contents						K sat		K unsat	
	Sat.	0.05 Bar						mn	n/h	mm/h	
	8.3A 8.1A 8.5A CaCO3 %	dS/m  8.3A 8.1A 8.5A  CaCO3 Organic C %  COLE	pH 1:5 EC Ca Ca dS/m  8.3A 8.1A 8.5A  CaCO3 Organic Avail. C P % % mg/kg	pH       1:5 EC dS/m       Exchangeable Mg         dS/m       Ca       Mg         8.3A 8.1A 8.5A       33.7J       12.6         CaCO3 Organic C P P P Mg/kg       Avail. Total C P P P Mg/kg         %       %       mg/kg       %	PH	pH         1:5 EC dS/m         Exchangeable Cations Mg         Exchangeable Cations K         Exchangeable Cations Na Cmol (+)/II           8.3A 8.1A 8.1A 8.5A         33.7J         12.6         0.3         0.1           CaCO3 Organic C P P P N K Mg/kg         Avail. Total Total Total K Mg/kg         Total Mg/kg         Total Mg/kg           COLE         Gravimetric/Volumetric Water Contest	pH         1:5 EC         Exchangeable Cations         Exchangeable Na Acidity           Ca         Mg         K         Na Acidity           Cmol (+)/kg         8.3A         8.1A         33.7J         12.6         0.3         0.1           8.5A         Avail.         Total         Total         Total         Bulk           CaCO3         Organic         Avail.         Total         Total         Bulk           C         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         Exchangeable Cations Na Acidity Cmol (+)/kg         Exchangeable CEC Na Acidity Cmol (+)/kg           8.3A         8.3A         8.1A         33.7J         12.6         0.3         0.1         48.7           8.5A         33.7J         12.6         0.3         0.1         Bulk         Pa           CaCO3         Organic Organic C P P P N K Density GV mg/kg         W Mg/m3         W Mg/m3         GV	PH	PH	pH         1:5 EC dS/m         Exchangeable Cations (Ca Mg)         Exchangeable Na Acidity (Cmol (+)/kg)         CEC ECEC         ECC         ECEC         ECEC

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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