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

Project Code: DLR Site ID: 790 Observation ID: 1

Agency Name: QLD Department of Primary Industries

Site Information

Desc. By: M.G. Cannon Locality:

Date Desc.: 04/10/91 Elevation: No Data Map Ref.: Sheet No.: 8157 GPS Rainfall: No Data Northing/Long.: 7757706 AMG zone: 55 Runoff: No Data 397172 Datum: AGD66 Easting/Lat.: Drainage: No Data

<u>Geology</u>

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

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

**Land Form** 

Rel/Slope Class:Undulating rises 9-30m 3-10%Pattern Type:RisesMorph. Type:Mid-slopeRelief:No DataElem. Type:FanSlope Category:Gently inclinedSlope:3 %Aspect:160 degrees

Surface Soil Condition (dry): Hardsetting, Hardsetting

**Erosion:** 

**Soil Classification** 

Australian Soil Classification:Mapping Unit:N/ASodic Eutrophic Red Kandosol Thin Non-gravelly Sandy Clay-Principal Profile Form:Gn2.12

loamy Very deep

ASC Confidence: Great Soil Group: Red earth

All necessary analytical data are available.

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

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Sparse. \*Species includes - Phynchelytrum repens, Heteropogon

contortus,

Eragrostis species Mid Strata - , , . \*Species includes - None recorded

Tall Strata - Tree, 12.01-20m, Mid-dense. \*Species includes - Eucalyptus crebra, Eucalyptus papuana

Surface Coarse Fragments: No surface coarse fragments

**Profile Morphology** 

Α	0 - 0.08 m	Dark reddish brown (5YR3/3-Moist); ; Loamy sand; Single grain grade of structure; Smooth-ped fabric; Dry; Very weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 0.05); Gradual change to -
A2	0.08 - 0.32 m	Yellowish red (5YR4/6-Moist); ; Loamy sand; Massive grade of structure; Earthy fabric; Dry; Very weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 8 (Raupach, 0.3); Diffuse
B1	0.32 - 0.7 m	Red (2.5YR4/8-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; Dry; Very weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 0.6); Diffuse change to -
B2	0.7 - 1.6 m	Red (10R4/8-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Firm consistence: Calcareous. Gyoseous. Field pH 7 (Raupach, 1.5):

## **Morphological Notes**

**Observation Notes** 

**Site Notes** 

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## Laboratory Test Results:

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рН	1:5 EC	Exchangeable Cations			Exchangeable		CEC	ECEC	ESP
	dS/m	Ca N	/lg	K	Na Acidity Cmol (+)/kg				%
5.4A 6.6A 7.6A		5.7J 5.8J	6.7 7.4	0.2 0.3	4.6 7.4		20.4l 24.4l		22.55 30.33
CaCO3	Organic C %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3			Analysis Silt Clay
COLE	Sat.	Gravimetric/Volumetric Water Contents K sat I 0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15 Bar g/g - m3/m3 mm/h							K unsat
	pH 5.4A 6.6A 7.6A CaCO3 %	pH 1:5 EC dS/m  5.4A 6.6A 7.6A  CaCO3 Organic C % %	Ca ModS/m  5.4A 6.6A 5.7J 7.6A 5.8J  CaCO3 Organic Avail. C P mg/kg	pH       1:5 EC dS/m       Exchangeable Ca Mg         dS/m       Ca Mg         5.4A       5.7J 6.7         6.6A 7.6A       5.8J 7.4         CaCO3 Organic C P P P mg/kg %       Avail. Total C P P P mg/kg %         COLE Sat. 0.05 Bar 0.1 Bar	pH         1:5 EC dS/m         Exchangeable Cations Mg         Cations K           5.4A         6.6A         5.7J         6.7         0.2           7.6A         5.8J         7.4         0.3           CaCO3         Organic C P P P N mg/kg         W         W           %         %         Mg/kg         %           COLE Sat.         Gravimetric/Volumetric Wolumetric	pH         1:5 EC         Exchangeable Cations         E           Ca         Mg         K         Na           Cmol (+)         S.4A         Cmol (+)           6.6A         5.7J         6.7         0.2         4.6           7.6A         5.8J         7.4         0.3         7.4           CaCO3         Organic         Avail.         Total         Total         Total           C         P         P         N         K           %         %         %         %    COLE  Gravimetric/Volumetric Water Control Sat. 0.05 Bar 0.1 Bar 0.5 Bar 1 Bar	pH         1:5 EC         Exchangeable Cations         Exchangeable Mag         K         Na         Acidity           5.4A         6.6A         5.7J         6.7         0.2         4.6         7.4         7.4         7.4         8         8         8         8         8         9         9         Na         K         Density         9         Mg/m3         9         Mg/m3         8         Mg/m3         8         1         5 Bar         15         5 Bar         15<	pH         1:5 EC         Exchangeable Cations         Exchangeable Acidity         CEC           dS/m         Ca         Mg         K         Na         Acidity         CEC         Acidity         CO.41         Acidity         Aci	PH

0 - 0.08 0.08 - 0.32 0.32 - 0.7

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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 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 CEC by 0.01M silver-thiourea (AgTU)+ 15F1\_NA

15F3 15N1 Exchangeable sodium percentage (ESP)

4A1 pH of 1:5 soil/water suspension