Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **612** **Observation ID: 1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By:	M.G. Cannon	**Locality:**	
Date Desc.:	25/05/91	**Elevation:**	No Data
Map Ref.:	Sheet No. : 8158-1 GPS	**Rainfall:**	No Data
Northing/Long.:	7838976 AMG zone: 55	**Runoff:**	Very rapid
Easting/Lat.:	441924 Datum: AGD66	**Drainage:**	Moderately well drained

Geology

ExposureType:	No Data	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	No Data	**Substrate Material:**	Existing vertical exposure, Andesite

Land Form

Rel/Slope Class:	Rolling low hills 30-90m 10-32%	**Pattern Type:**	Hills
Morph. Type:	Upper-slope	**Relief:**	No Data
Elem. Type:	Hillcrest	**Slope Category:**	Moderately inclined
Slope:	24 %	**Aspect:**	270 degrees

Surface Soil Condition (dry):   Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	**Mapping Unit:**	N/A
Haplic Eutrophic Red Chromosol Medium Non-gravelly Clay-loamy Clayey Shallow	**Principal Profile Form:**	Dr2.12
ASC Confidence:	**Great Soil Group:**	Non-calcic brown soil
No analytical data are available but confidence is fair.		

Site Disturbance: Extensive clearing, for example poisoning, ringbarking

Vegetation: Low Strata - Tussock grass, 0.51-1m, Mid-dense. *Species includes - Heteropogon contortus, Themeda triandra,

Heteropogon triticeus   Mid Strata - Tree, 3.01-6m, Very sparse. *Species includes - Eucalyptus shirleyi, Casuarina leuhmannii

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

Surface Coarse Fragments:

Profile Morphology

A11   0 - 0.07 m   Dark reddish brown (5YR3/2-Moist); ; Clay loam; Weak grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Dry; Weak consistence; 10-20%, cobbly, 60-200mm, rounded, dispersed, Andesite, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 0.05); Few, fine (1-2mm) roots; Clear change to -

A12   0.07 - 0.18 m   Dark reddish brown (5YR3/3-Moist); ; Clay loam; Moderate grade of structure, 2-5 mm, Subangular blocky; Moderate grade of structure, <2 mm, Subangular blocky; Earthy fabric; Dry; Weak consistence; 10-20%, cobbly, 60-200mm, rounded, dispersed, Andesite, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 0.15); Few, fine (1-2mm) roots; Clear change to -

B2   0.18 - 0.45 m   Dark red (2.5YR3/6-Moist); ; Medium clay; Strong grade of structure, 5-10 mm, Subangular blocky; Strong grade of structure, <2 mm, Angular blocky; Smooth-ped fabric; Dry; Very firm consistence; 2-10%, coarse gravelly, 20-60mm, rounded, dispersed, Andesite, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 7.2 (Raupach, 0.3); Few, very fine (0-1mm) roots; Abrupt change to -

C   0.45 - 0.5 m   ; Dry; 90-100%, bouldery, 600mm-2m, rounded, dispersed, Andesite, coarse fragments; , Calcareous, , ; , Gypseous, , ;

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

| Depth | pH | 1:5 EC | Ca | Exchangeable Cations | | | Exchangeable | CEC | ECEC | ESP |
| | | | | | Mg | K | Na | Acidity | | | |
m		dS/m					Cmol (+)/kg				%
0 - 0.07	6.1A										
0.07 - 0.18	6.1A										
0.18 - 0.45	6.5A										

| Depth | CaCO3 | Organic C | Avail. P | Total P | Total N | Total K | Bulk Density | GV | Particle Size CS | Analysis FS | Silt | Clay |
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.07												
0.07 - 0.18												
0.18 - 0.45												

| Depth | COLE | Sat. | Gravimetric/Volumetric Water Contents 0.05 Bar | 0.1 Bar | 0.5 Bar | 1 Bar | 5 Bar | 15 Bar | K sat | K unsat |
m					g/g - m3/m3				mm/h	mm/h
0 - 0.07										
0.07 - 0.18										
0.18 - 0.45										

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Laboratory Analyses Completed for this profile

4A1   pH of 1:5 soil/water suspension