

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 509 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By: M.G. Cannon	Locality:
Date Desc.: 09/04/91	Elevation: 280 metres
Map Ref.: Sheet No. : 8158 GPS	Rainfall: No Data
Northing/Long.: 7819458 AMG zone: 55	Runoff: Rapid
Easting/Lat.: 439306 Datum: AGD66	Drainage: Imperfectly drained

Geology

Exposure Type: No Data	Conf. Sub. is Parent. Mat.: No Data
Geol. Ref.: No Data	Substrate Material: Existing vertical exposure, Metamorphic rock (unidentified)

Land Form

Rel/Slope Class: Undulating low hills 30-90m 3-10%	Pattern Type: Low hills
Morph. Type: Mid-slope	Relief: No Data
Elem. Type: Hillslope	Slope Category: Moderately inclined
Slope: 8 %	Aspect: 60 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Haplic Eutrophic Red Chromosol Medium Very gravelly Clay-loamy Clayey Shallow	Principal Profile Form: Dr2.32
ASC Confidence:	Great Soil Group: Solodic soil
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, Mid-dense. *Species includes - Heteropogon contortus, Dicanthium fecundum,
 Eragrostis species Mid Strata - Tree, 6.01-12m, Isolated plants. *Species includes - Eucalyptus crebra, Eucalyptus papuana, Albizia basaltica
 Tall Strata - Tree, 12.01-20m, Very sparse. *Species includes - Eucalyptus crebra, Eucalyptus papuana, Eucalyptus erythrophloia

Surface Coarse Fragments: 50-90%, medium gravelly, 6-20mm, angular platy, Metamorphic rock (unidentified)

Profile Morphology

A1	0 - 0.02 m	Very dark greyish brown (10YR3/2-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Strong consistence; 50-90%, medium gravelly, 6-20mm, angular tabular, undisturbed, Metamorphic rock (unidentified), coarse fragments; , Calcareous, , ; , Gypseous, , ; Sharp, Wavy change to -
A2j	0.02 - 0.15 m	Brown (7.5YR4/2-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Very strong consistence; 20-50%, medium gravelly, 6-20mm, angular tabular, undisturbed, Metamorphic rock (unidentified), coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 7.5 (Raupach, 0.1); Sharp, Smooth change to -
B2	0.15 - 0.4 m	Weak red (10R4/3-Moist); ; Medium heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Dry; Rigid consistence; 20-50%, medium gravelly, 6-20mm, angular tabular, undisturbed, Metamorphic rock (unidentified), coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 8 (Raupach, 0.4); Sharp, Irregular change to -
C	0.4 - 0.5 m	; , Calcareous, , ; , Gypseous, , ;

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Mg	Cations K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0.02 - 0.15	7.6A									
0.15 - 0.4	7.5A		14J	1.3	0.5	0.4		14.5I		2.76

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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
15F1_K	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F1_MG	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F1_NA	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F3	CEC by 0.01M silver-thiourea (AgTU)+
15N1	Exchangeable sodium percentage (ESP)
4A1	pH of 1:5 soil/water suspension