

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 445 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	Barry, Earl	Locality:	
Date Desc.:	16/10/91	Elevation:	299 metres
Map Ref.:	Sheet No. : 8156 GPS	Rainfall:	No Data
Northing/Long.:	7701899 AMG zone: 55	Runoff:	Very rapid
Easting/Lat.:	424082 Datum: AGD66	Drainage:	Poorly drained

Geology

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

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	Pattern Type:	Plain
Morph. Type:	Mid-slope	Relief:	No Data
Elem. Type:	Plain	Slope Category:	Gently inclined
Slope:	4 %	Aspect:	90 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Eutrophic Red Kandosol Thin Slightly gravelly Clayey Clayey Shallow		Principal Profile Form:	Gn4.52
ASC Confidence:		Great Soil Group:	Yellow earth

All necessary analytical data are available.

Site Disturbance: Limited clearing, for example selective logging

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Very sparse. *Species includes - Eriachne species, Cyperus species, Aristida species Mid Strata - , , , . *Species includes - None recorded

Tall Strata - Tree, 6.01-12m, Isolated plants. *Species includes - Eucalyptus papuana

Surface Coarse Fragments: 2-10%, fine gravelly, 2-6mm, subrounded,

Profile Morphology

B11	0 - 0.05 m	Dark brown (7.5YR3/2-Moist); ; Sandy light clay; Massive grade of structure; Dry; Firm consistence; 10-20%, medium gravelly, 6-20mm, subangular, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 6 (Raupach, 0.05); Clear change to -
B12	0.05 - 0.25 m	Dark reddish brown (5YR3/3-Moist); ; Coarse sandy light clay; Massive grade of structure; Dry; Firm consistence; 10-20%, medium gravelly, 6-20mm, subangular, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , ; Clear change to -
B13	0.25 - 0.3 m	Reddish brown (5YR4/4-Moist); ; Coarse sandy light medium clay; Massive grade of structure; Dry; Firm consistence; 10-20%, medium gravelly, 6-20mm, subangular, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.3); Clear change to -
B21	0.3 - 0.4 m	Grey (10YR6/1-Moist); Mottles, 7.5YR6/8, 20-50% , 5-15mm, Prominent; Mottles, 20-50% ; Medium clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Strong grade of structure, 2-5 mm, Platy; Dry; Very firm consistence; 20-50%, medium gravelly, 6-20mm, subangular, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , ; Abrupt change to -
C	0.4 - 0.5 m	; Dry; , Calcareous, , , , Gypseous, , ,

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				cmol (+)/kg				%
0 - 0.05	6.4A									
0.05 - 0.25	5.8A									
0.3 - 0.4	6A		4.9J	7.6	0.1	0.4		14.7I		2.72

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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