

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 352 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M. DeCorte	Locality:	
Date Desc.:	01/08/91	Elevation:	320 metres
Map Ref.:	Sheet No. : 8157 GPS	Rainfall:	No Data
Northing/Long.:	7745883 AMG zone: 55	Runoff:	No runoff
Easting/Lat.:	404318 Datum: AGD66	Drainage:	Imperfectly drained

Geology

ExposureType:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	No Data

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	Pattern Type:	Plain
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Plain	Slope Category:	Gently inclined
Slope:	1 %	Aspect:	210 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Bleached Eutrophic Brown Chromosol Thick Non-gravelly	Principal Profile Form:	Db1.43
Sandy Clayey Very deep		
ASC Confidence:	Great Soil Group:	No suitable
Analytical data are incomplete but reasonable confidence.		

Site Disturbance: Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation: Low Strata - Tussock grass, 0.51-1m, Mid-dense. *Species includes - Chloris ventricosa
Mid Strata - , , . *Species includes - None recorded
Tall Strata - , , . *Species includes - None Recorded

Surface Coarse Fragments: 0-2%, coarse gravelly, 20-60mm, angular, Quartz

Profile Morphology

A1	0 - 0.08 m	Brown (10YR4/3-Moist); ; Loamy fine sand; Moderate grade of structure, 5-10 mm, Granular; Smooth-ped fabric; Dry; Firm consistence; 0-2%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.05); Clear, Smooth change to -
A21	0.08 - 0.3 m	Dark yellowish brown (10YR4/4-Moist); ; Sandy clay loam (Heavy); Weak grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Dry; Firm consistence; 2-10%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 0.3); Clear, Smooth change to -
A22e	0.3 - 0.31 m	Yellowish brown (10YR5/4-Moist); ; Medium clay; Weak grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Dry; Very strong consistence; 0-2%, medium gravelly, 6-20mm, angular, dispersed, Quartz, coarse fragments; , Calcareous, , ; , Gypseous, , ; Abrupt, Smooth change to -
B1	0.31 - 0.65 m	Brown (10YR4/3-Moist); Mottles, 7.5YR58, 0-2% , 0-5mm, Faint; Mottles, 0-2% ; Medium clay; Strong grade of structure, 20-50 mm, Lenticular; Smooth-ped fabric; Dry; Very strong consistence; 0-2%, medium gravelly, 6-20mm, angular, dispersed, Quartz, coarse fragments; Many cutans, >50% of ped faces or walls coated, prominent; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Soft segregations; , Calcareous, , ; , Gypseous, , ; Field pH 9.9 (Raupach, 0.6); Clear, Smooth change to -
B21	0.65 - 0.92 m	Strong brown (7.5YR4/6-Moist); Mottles, 7.5YR58, 0-2% , 0-5mm, Faint; Mottles, 0-2% ; Medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; Many cutans, >50% of ped faces or walls coated, prominent; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Nodules; , Gypseous, , ; Field pH 9.9 (Raupach, 0.9); Clear, Smooth change to -

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B22	0.92 - 1.3 m	Strong brown (7.5YR5/6-Moist); Mottles, 7.5YR58, 2-10% , 0-5mm, Faint; Mottles, 2-10% ; Medium clay; Strong grade of structure, 20-50 mm, Lenticular; Strong grade of structure, 10-20 mm, Lenticular; Smooth-ped fabric; Moderately moist; Strong consistence; Many cutans, >50% of ped faces or walls coated, prominent; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Very few (0 - 2 %), Calcareous, Coarse (6 - 20 mm), Nodules; , Gypseous, , ; Field pH 9.9 (Raupach, 1.2); Clear, Smooth change to -
B23	1.3 - 1.65 m	Yellowish brown (10YR5/6-Moist); Mottles, 5YR58, 10-20% , 0-5mm, Distinct; Mottles, 7.5YR58, 10-20% ; Medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; , Gypseous, , ; Field pH 9.9 (Raupach, 1.5); Clear, Smooth change to -
B24	1.65 - 1.95 m	Yellowish brown (10YR5/6-Moist); Mottles, 7.5YR58, 10-20% , 0-5mm, Distinct; Mottles, 10-20% ; Light medium clay; Common (10 - 20 %), Calcareous, Very coarse (20 - 60 mm), Soft segregations; , Gypseous, , ; Field pH 9.9 (Raupach, 1.8);

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC		Exchangeable Cations		Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity		%
0 - 0.08	6.7A								
0.08 - 0.3	7.1A								
0.31 - 0.65	8.9A								
0.65 - 0.92	9A		10.8J	12.4	0	0.9		20.6I	4.37
0.92 - 1.3	9A								
1.3 - 1.65	8.8A								
1.65 - 1.95	8.6A								

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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