

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 144 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M. DeCorte	Locality:	
Date Desc.:	06/09/90	Elevation:	420 metres
Map Ref.:	Sheet No. : 7960 GPS	Rainfall:	No Data
Northing/Long.:	7904100 AMG zone: 55	Runoff:	Very rapid
Easting/Lat.:	301396 Datum: AGD66	Drainage:	Well 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:	Level plain <9m <1%	Pattern Type:	Alluvial plain
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Terrace flat	Slope Category:	Level
Slope:	1 %	Aspect:	200 degrees

Surface Soil Condition (dry): Hardsetting, Surface crust

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Haplic Eutrophic Brown Chromosol Thin Non-gravelly Silty Clayey Very deep	Principal Profile Form:	Db1.13
ASC Confidence:	Great Soil Group:	No suitable group

All necessary analytical data are available.

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

Vegetation: Low Strata - Shrub, 0.26-0.5m, Sparse. *Species includes - None recorded
Mid Strata - Tree, 3.01-6m, Sparse. *Species includes - Eucalyptus brownii, Bursaria incana, Eremophila

mitchellii

Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - Eucalyptus brownii, Lysiphillum carronii, Owenia

acidula

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.02 m	Dark brown (7.5YR3/4-Moist); ; Silty loam; Strong grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; , Calcareous, , ; , Gypseous, , ; Few, fine (1-2mm) roots; Abrupt, Smooth change to -
B21k	0.02 - 1 m	Dark brown (10YR3/3-Moist); ; Light medium clay; Strong grade of structure, 20-50 mm, Prismatic; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; Few cutans, <10% of ped faces or walls coated, prominent; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Crystals; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; , Gypseous, , ; Field pH 6 (Raupach, 0.05); Field pH 9.9 (Raupach, 0.6); Few, very fine (0-1mm) roots; Gradual, Smooth change to -
B22	1 - 1.4 m	Dark brown (10YR3/3-Moist); ; Medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; Few cutans, <10% of ped faces or walls coated, prominent; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Crystals; , Calcareous, , ; , Gypseous, , ; Field pH 9.5 (Raupach, 1.2); Gradual, Smooth change to -
B23c	1.4 - 1.8 m	Brown (7.5YR4/4-Moist); ; Medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; Common (10 - 20 %), Manganiferous, Medium (2 -6 mm), Crystals; , Calcareous, , ; , Gypseous, , ; Field pH 9 (Raupach, 1.8);

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth m	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
		Ca dS/m	Mg	K	Na Cmol (+)/kg	Acidity			
0 - 0.02	6.2A	5.4B	7.8	0.43	0.37				
0.02 - 1	8.3A	9.5J	15.6	0.4	0.6		26.6I		2.26
1 - 1.4	8.4A	7.3B	14	0.28	1.9		19B		10.00
		6.6E	13	0.25	1.9				
1.4 - 1.8	8.5A								

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Laboratory Analyses Completed for this profile

10B	Extractable sulfur(mg/kg) - Phosphate extractable sulfur
15A2_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_K	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_MG	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_NA	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15C1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
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