

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 218 **Observation ID:** 1  
**Agency Name:** QLD Department of Primary Industries

#### Site Information

<b>Desc. By:</b>	M. DeCorte	<b>Locality:</b>	
<b>Date Desc.:</b>	12/04/91	<b>Elevation:</b>	200 metres
<b>Map Ref.:</b>	Sheet No. : 8257 GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7759612 AMG zone: 55	<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>	486946 Datum: AGD66	<b>Drainage:</b>	Well drained

#### Geology

<b>Exposure Type:</b>	No Data	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	Existing vertical exposure, Granodiorite

#### Land Form

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	No Data
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	No Data	<b>Slope Category:</b>	No Data
<b>Slope:</b>	%	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):** Hardsetting

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Haplic Calcic Red Chromosol Medium Non-gravelly Loamy Clayey Very deep	<b>Principal Profile Form:</b>	Dr2.13
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Red-brown earth

All necessary analytical data are available.

**Site Disturbance:** Highly disturbed, for example, quarrying, roadworks, mining, landfill, urban

#### Vegetation:

#### Surface Coarse Fragments:

#### Profile Morphology

A1	0 - 0.1 m	Dark reddish brown (5YR3/4-Moist); ; Sandy loam; Moderate grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Many (>5 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Dry; Weak consistence; , Calcareous, , , , Gypseous, , , ; Field pH 6.5 (Raupach, 0.05); Common, very fine (0-1mm) roots; Clear, Smooth change to -
B1	0.1 - 0.3 m	Dark red (2.5YR3/6-Moist); ; Light medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Few (<1 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Dry; Very firm consistence; Many cutans, >50% of ped faces or walls coated, prominent; , Calcareous, , , , Gypseous, , , ; Field pH 6.5 (Raupach, 0.3); Few, coarse (>5mm) roots; Abrupt, Smooth change to -
B21	0.3 - 0.9 m	Dark red (2.5YR3/6-Moist); ; Medium clay; Strong grade of structure, 50-100 mm, Prismatic; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Few (<1 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Dry; Strong consistence; Many cutans, >50% of ped faces or walls coated, prominent; , Calcareous, , , , Gypseous, , , ; Field pH 7 (Raupach, 0.6); Clear, Smooth change to -
B22	0.9 - 1.5 m	Dark red (2.5YR3/6-Moist); ; Medium clay; Strong grade of structure, 50-100 mm, Prismatic; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Few (<1 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Dry; Strong consistence; Many cutans, >50% of ped faces or walls coated, prominent; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Nodules; , Gypseous, , , ; Soil matrix is Slightly calcareous; Field pH 9.5 (Raupach, 1.2); Field pH 9.5 (Raupach, 1.5); Clear, Smooth change to -
B3	1.5 - 1.8 m	Dark red (2.5YR3/6-Moist); ; Light clay; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Common (1-5 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Dry; Very firm consistence; Many cutans, >50% of ped faces or walls coated; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Nodules; , Gypseous, , , ; Soil matrix is Slightly calcareous;

#### Morphological Notes

#### Observation Notes

#### Site Notes

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**Laboratory Test Results:**

[illegible][illegible][illegible]

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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