

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 629 **Observation ID:** 1  
**Agency Name:** QLD Department of Primary Industries

#### Site Information

|                        |                        |                   |                     |
|------------------------|------------------------|-------------------|---------------------|
| <b>Desc. By:</b>       | M.G. Cannon            | <b>Locality:</b>  |                     |
| <b>Date Desc.:</b>     | 27/05/91               | <b>Elevation:</b> | No Data             |
| <b>Map Ref.:</b>       | Sheet No. : 8259-3 GPS | <b>Rainfall:</b>  | No Data             |
| <b>Northing/Long.:</b> | 7850844 AMG zone: 55   | <b>Runoff:</b>    | Very slow           |
| <b>Easting/Lat.:</b>   | 450840 Datum: AGD66    | <b>Drainage:</b>  | Very poorly drained |

#### Geology

|                      |         |                                    |                                |
|----------------------|---------|------------------------------------|--------------------------------|
| <b>ExposureType:</b> | No Data | <b>Conf. Sub. is Parent. Mat.:</b> | No Data                        |
| <b>Geol. Ref.:</b>   | No Data | <b>Substrate Material:</b>         | Undisturbed soil core, No Data |

#### Land Form

|                         |                                       |                        |                    |
|-------------------------|---------------------------------------|------------------------|--------------------|
| <b>Rel/Slope Class:</b> | Gently undulating rises 9-30m<br>1-3% | <b>Pattern Type:</b>   | Rises              |
| <b>Morph. Type:</b>     | Mid-slope                             | <b>Relief:</b>         | No Data            |
| <b>Elem. Type:</b>      | Fan                                   | <b>Slope Category:</b> | Very gently sloped |
| <b>Slope:</b>           | 1 %                                   | <b>Aspect:</b>         | 135 degrees        |

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

#### Erosion:

#### Soil Classification

|  |  |                                |              |
|--|--|--------------------------------|--------------|
| <b>Australian Soil Classification:</b> | Eutrophic Mottled-Subnatric Grey Sodosol Thick Non-gravelly<br>Sandy Clayey Deep | <b>Mapping Unit:</b>           | N/A          |
|  |  | <b>Principal Profile Form:</b> | Dy3.43       |
| <b>ASC Confidence:</b>                 | No analytical data are available but confidence is fair.                         | <b>Great Soil Group:</b>       | Solodic soil |

**Site Disturbance:** Limited clearing, for example selective logging

**Vegetation:** Low Strata - Tussock grass, 0.51-1m, Mid-dense. \*Species includes - Imperata cylindrica, Heteropogon  
triticeus, Cyperus species Mid Strata - , , . \*Species includes - None recorded

Tall Strata - Tree, 6.01-12m, Sparse. \*Species includes - Eucalyptus platyphylla, Eucalyptus tereticornis,  
Lophostemon suaveolens

#### Surface Coarse Fragments:

#### Profile Morphology

|     |              |  |
|-----|--------------|--|
| A1  | 0 - 0.08 m   | Dark greyish brown (10YR4/2-Moist); ; Fine sand; Weak grade of structure, 2-5 mm, Subangular blocky; Earthy fabric; Dry; Very weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 5 (Raupach, 0.05); Many, fine (1-2mm) roots;  |
| A2j | 0.08 - 0.3 m | Greyish brown (10YR5/2-Moist); ; Fine sand; Massive grade of structure; Earthy fabric; Dry; Very weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 5.5 (Raupach, 0.15); Field pH 5.5 (Raupach, 0.3); Few, very fine (0-1mm) roots;  |
| B21 | 0.3 - 0.7 m  | Greyish brown (10YR5/2-Moist); Substrate influence, 10YR56, 10-20% , 15-30mm, Prominent; Substrate influence, 10-20% ; Medium heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; , Calcareous, , ; ,  |
| B22 | 0.7 - 1.4 m  | Light brownish grey (10YR6/2-Moist); Substrate influence, 10YR58, 2-10% , 15-30mm, Prominent; Substrate influence, 2-10% ; Medium heavy clay; Strong grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Soft segregations; , Calcareous, , ; , Gypseous, , ; Field pH 7.7 (Raupach, 1.2); |

#### Morphological Notes

#### Observation Notes

#### Site Notes

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**Laboratory Test Results:**

| Depth      | pH   | 1:5 EC |    | Exchangeable Cations | Exchangeable Acidity | CEC               | ECEC | ESP |
|------------|------|--------|----|----------------------|----------------------|-------------------|------|-----|
| m          |      | dS/m   | Ca | Mg                   | K                    | Na<br>Cmol (+)/kg |      | %   |
| 0 - 0.08   | 5.2A |        |    |                      |                      |                   |      |     |
| 0.08 - 0.3 | 6A   |        |    |                      |                      |                   |      |     |
| 0.3 - 0.7  | 5.7A |        |    |                      |                      |                   |      |     |
| 0.7 - 1.4  | 7.8A |        |    |                      |                      |                   |      |     |

[illegible][illegible]

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**Laboratory Analyses Completed for this profile**

4A1                      pH of 1:5 soil/water suspension