

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 2266 **Observation ID:** 1  
**Agency Name:** QLD Department of Primary Industries

#### Site Information

|                        |                      |                   |                     |
|------------------------|----------------------|-------------------|---------------------|
| <b>Desc. By:</b>       | Rogers, Gary         | <b>Locality:</b>  |                     |
| <b>Date Desc.:</b>     | 24/08/93             | <b>Elevation:</b> | No Data             |
| <b>Map Ref.:</b>       | Sheet No. : 7859 GPS | <b>Rainfall:</b>  | No Data             |
| <b>Northing/Long.:</b> | 7870556 AMG zone: 55 | <b>Runoff:</b>    | Slow                |
| <b>Easting/Lat.:</b>   | 271176 Datum: AGD66  | <b>Drainage:</b>  | Imperfectly 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>         | Undisturbed soil core, No Data |

#### Land Form

|                         |                                   |                        |                    |
|-------------------------|-----------------------------------|------------------------|--------------------|
| <b>Rel/Slope Class:</b> | Gently undulating plains <9m 1-3% | <b>Pattern Type:</b>   | Alluvial plain     |
| <b>Morph. Type:</b>     | Flat                              | <b>Relief:</b>         | No Data            |
| <b>Elem. Type:</b>      | Plain                             | <b>Slope Category:</b> | Very gently sloped |
| <b>Slope:</b>           | 1 %                               | <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 Eutrophic Brown Chromosol       |  | <b>Principal Profile Form:</b> | Db1.32 |
| <b>ASC Confidence:</b>                 | No analytical data are available but confidence is fair. | <b>Great Soil Group:</b>       | N/A    |

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

**Vegetation:** Low Strata - Tussock grass, 0.51-1m, Sparse. \*Species includes - Heteropogon contortus  
Mid Strata - Tree, 6.01-12m, Very sparse. \*Species includes - Eucalyptus papuana, Eucalyptus polycarpa  
Tall Strata - Tree, 12.01-20m, Sparse. \*Species includes - Eucalyptus crebra, Eucalyptus papuana, Eucalyptus polycarpa

**Surface Coarse Fragments:** No surface coarse fragments

#### Profile Morphology

|     |               |   |
|-----|---------------|---|
| A11 | 0 - 0.07 m    | Dark brown (10YR3/3-Moist); ; Clayey sand; Weak grade of structure, Platy; Rough-ped fabric; Dry; Weak consistence; , Calcareous, , , , Gypseous, , , ; Field pH 6 (Raupach, 0.03); Clear change to -   |
| A12 | 0.07 - 0.28 m | Dark yellowish brown (10YR4/4-Moist); ; Clayey sand (Heavy); Massive grade of structure; Earthy fabric; Dry; Weak consistence; , Calcareous, , , , Gypseous, , , ; Field pH 6.5 (Raupach, 0.2); Clear change to -   |
| A2j | 0.28 - 0.5 m  | Dark yellowish brown (10YR4/6-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Strong consistence; , Calcareous, , , , Gypseous, , , ; Field pH 6 (Raupach, 0.4); Abrupt change to -   |
| B21 | 0.5 - 0.85 m  | Dark yellowish brown (10YR4/4-Moist); ; Sandy light medium clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Dry; Strong consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Soft segregations; , Calcareous, , , , Gypseous, , , ; Field pH 6 (Raupach, 0.6); Field pH 7 (Raupach, 0.7); Gradual change to - |
| B22 | 0.85 - 1 m    | Dark brown (7.5YR3/2-Moist); ; Sandy light medium clay (Heavy); Strong grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; , Calcareous, , , , Gypseous, , ,  |

#### 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          |     |      |     |
|       |    |        |                      |    |                      | Cmol (+)/kg |     |      | %   |

  

| Depth | CaCO3 | Organic C | Avail. P | Total P | Total N | Total K | Bulk Density | Particle Size | Analysis  |
|-------|-------|-----------|----------|---------|---------|---------|--------------|---------------|-----------|
| m     | %     | %         | mg/kg    | %       | %       | %       | Mg/m3        | GV CS FS      | Silt Clay |
|       |       |           |          |         |         |         |              | %             |           |

  

| Depth | COLE | Gravimetric/Volumetric Water Contents |          |         |             |       |       | K sat  | K unsat   |
|-------|------|---------------------------------------|----------|---------|-------------|-------|-------|--------|-----------|
|       |      | Sat.                                  | 0.05 Bar | 0.1 Bar | 0.5 Bar     | 1 Bar | 5 Bar | 15 Bar |           |
| m     |      |                                       |          |         | g/g - m3/m3 |       |       |        | mm/h mm/h |

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Laboratory Analyses Completed for this profile