

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR                      **Site ID:** 903                      **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>     | 02/11/91                | <b>Elevation:</b> | 230 metres |
| <b>Map Ref.:</b>       | Sheet No. : 8256    GPS | <b>Rainfall:</b>  | No Data    |
| <b>Northing/Long.:</b> | 7690488 AMG zone: 55    | <b>Runoff:</b>    | No Data    |
| <b>Easting/Lat.:</b>   | 476275    Datum: AGD66  | <b>Drainage:</b>  | No Data    |

**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>         | No Data |

**Land Form**

|                         |                             |                        |                 |
|-------------------------|-----------------------------|------------------------|-----------------|
| <b>Rel/Slope Class:</b> | Undulating plains <9m 3-10% | <b>Pattern Type:</b>   | Alluvial plain  |
| <b>Morph. Type:</b>     | Mid-slope                   | <b>Relief:</b>         | No Data         |
| <b>Elem. Type:</b>      | Plain                       | <b>Slope Category:</b> | Gently inclined |
| <b>Slope:</b>           | 3 %                         | <b>Aspect:</b>         | No Data         |

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

|  |                                |        |
|--|--------------------------------|--------|
| <b>Australian Soil Classification:</b>   | <b>Mapping Unit:</b>           | N/A    |
| Mesotrophic Mottled-Subnatic Black Sodosol Thick Non-gravelly Loamy Clayey Moderately deep | <b>Principal Profile Form:</b> | Dd2.43 |

**ASC Confidence:**

No analytical data are available but confidence is fair.

**Great Soil Group:** N/A

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

**Vegetation:** Low Strata - Tussock grass, <0.25m, Isolated plants. \*Species includes - Cyperus species, Heteropogon contortus

Mid Strata - , , . \*Species includes - None recorded

Tall Strata - Tree, 3.01-6m, Mid-dense. \*Species includes - Acacia harpophylla, Lysipillum carronii

**Surface Coarse Fragments:**

**Profile Morphology**

|      |               |   |
|------|---------------|---|
| A11  | 0 - 0.19 m    | Dark greyish brown (10YR4/2-Moist); ; Sandy loam (Heavy); Massive grade of structure; , Calcareous, , , , Gypseous, , , Field pH 5.8 (Raupach, 0.05);   |
| A12j | 0.19 - 0.22 m | Brown (7.5YR4/2-Moist); ; Sandy loam (Heavy); Massive grade of structure; , Calcareous, , , , Gypseous, , ,   |
| B2e  | 0.22 - 0.3 m  | Brown (7.5YR4/2-Moist); ; Sandy loam (Heavy); Massive grade of structure; 2-10%, cobbly, 60-200mm, rounded tabular, Sandstone, coarse fragments; , Calcareous, , , , Gypseous, , , Field pH 6.8 (Raupach, 0.3); |
| B2   | 0.3 - 0.4 m   | Dark brown (7.5YR3/2-Moist); Mottles, 7.5R54, 10-20% , Distinct; Mottles, 10-20% ; Sandy medium clay; Moderate grade of structure, 100-200 mm, Columnar; , 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   |
|-------|------|---------------------------------------|----------|---------|-------------|-------|-------|--------|-----------|
| m     |      | Sat.                                  | 0.05 Bar | 0.1 Bar | 0.5 Bar     | 1 Bar | 5 Bar | 15 Bar |           |
|       |      |                                       |          |         | g/g - m3/m3 |       |       |        | mm/h mm/h |

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Laboratory Analyses Completed for this profile