

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 785 **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>     | 03/10/91             | <b>Elevation:</b> | 290 metres |
| <b>Map Ref.:</b>       | Sheet No. : 8156 GPS | <b>Rainfall:</b>  | No Data    |
| <b>Northing/Long.:</b> | 7719367 AMG zone: 55 | <b>Runoff:</b>    | No Data    |
| <b>Easting/Lat.:</b>   | 424807 Datum: AGD66  | <b>Drainage:</b>  | No Data    |

#### 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>         | Existing vertical exposure, No Data |

#### Land Form

|                         |                                   |                        |                    |
|-------------------------|-----------------------------------|------------------------|--------------------|
| <b>Rel/Slope Class:</b> | Gently undulating plains <9m 1-3% | <b>Pattern Type:</b>   | Rises              |
| <b>Morph. Type:</b>     | Mid-slope                         | <b>Relief:</b>         | No Data            |
| <b>Elem. Type:</b>      | Plain                             | <b>Slope Category:</b> | Very gently sloped |
| <b>Slope:</b>           | 2 %                               | <b>Aspect:</b>         | No Data            |

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

#### Erosion:

#### Soil Classification

|  |  |                                |            |
|--|--|--------------------------------|------------|
| <b>Australian Soil Classification:</b> | Ferric Eutrophic Brown Kandosol Thin Non-gravelly Clay-loamy Clayey Deep | <b>Mapping Unit:</b>           | N/A        |
| <b>ASC Confidence:</b>                 | No analytical data are available but confidence is fair.                 | <b>Principal Profile Form:</b> | Um2        |
|  |  | <b>Great Soil Group:</b>       | Grey earth |

**Site Disturbance:** Complete clearing. Pasture, native or improved, but never cultivated

**Vegetation:** Low Strata - Tussock grass, 0.26-0.5m, Mid-dense. \*Species includes - Heteropogon contortus, Unknown species,

Chrysopogon fallax Mid Strata - Tree, 3.01-6m, Isolated plants. \*Species includes - Acacia species

Tall Strata - Tree, 6.01-12m, Isolated plants. \*Species includes - Eucalyptus papuana

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

#### Profile Morphology

|      |              |   |
|------|--------------|---|
| A1   | 0 - 0.04 m   | Yellowish brown (10YR5/4-Moist); ; Sandy clay loam (Light); Massive grade of structure; Earthy fabric; Dry; Weak consistence; , Calcareous, , , , Gypseous, , ; Clear, Wavy change to -   |
| A2   | 0.04 - 0.2 m | Brown (10YR5/3-Moist); ; Sandy clay loam (Light); Massive grade of structure; Earthy fabric; Dry; Firm consistence; , Calcareous, , , , Gypseous, , ; Field pH 6 (Raupach, 0.05); Gradual, Wavy change to -   |
| B21  | 0.2 - 0.6 m  | Brown (10YR5/3-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Firm consistence; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.6); Clear, Wavy change to -  |
| B22c | 0.6 - 1.1 m  | ; Sandy loam; Massive grade of structure; Dry; 2-10%, stony, 200-600mm, rounded, Igneous rock (unidentified), coarse fragments; Very many (50 - 100 %), Ferruginous, Very coarse (20 - 60 mm), Concretions; , Calcareous, , , , Gypseous, , ; Field pH 6 (Raupach, 0.9); Gradual, Irregular change to -   |
| B3   | 1.1 - 1.3 m  | Brownish yellow (10YR6/8-Moist); Substrate influence, 10YR71, 20-50% , 5-15mm, Prominent; Substrate influence, 20-50% ; Medium clay; Massive grade of structure; Dry; Strong consistence; 10-20%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Common (10 - 20 %), Ferruginous, Medium (2 -6 mm), Concretions; , Calcareous, , , , Gypseous, , ; |

#### Morphological Notes

#### Observation Notes

#### Site Notes

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Laboratory Test Results:

| Depth | pH | 1:5 EC | Exchangeable Cations |    |   |             | Exchangeable | CEC | ECEC |  | ESP |   |
|-------|----|--------|----------------------|----|---|-------------|--------------|-----|------|--|-----|---|
| m     |    | dS/m   | Ca                   | Mg | K | Na          | Acidity      |     |      |  |     | % |
|       |    |        |                      |    |   | 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