

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 494 **Observation ID:** 1  
**Agency Name:** QLD Department of Primary Industries

#### Site Information

|                        |                      |                   |            |
|------------------------|----------------------|-------------------|------------|
| <b>Desc. By:</b>       | Barry, Earl          | <b>Locality:</b>  |            |
| <b>Date Desc.:</b>     | 19/11/91             | <b>Elevation:</b> | 180 metres |
| <b>Map Ref.:</b>       | Sheet No. : 8256 GPS | <b>Rainfall:</b>  | No Data    |
| <b>Northing/Long.:</b> | 7685482 AMG zone: 55 | <b>Runoff:</b>    | No Data    |
| <b>Easting/Lat.:</b>   | 461965 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> | Gently undulating plains <9m 1-3% | <b>Pattern Type:</b>   | Plain              |
| <b>Morph. Type:</b>     | Mid-slope                         | <b>Relief:</b>         | No Data            |
| <b>Elem. Type:</b>      | Hillslope                         | <b>Slope Category:</b> | Very gently sloped |
| <b>Slope:</b>           | 1.5 %                             | <b>Aspect:</b>         | No Data            |

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

#### Erosion:

#### Soil Classification

|   |                                |              |
|---|--------------------------------|--------------|
| <b>Australian Soil Classification:</b>  | <b>Mapping Unit:</b>           | N/A          |
| Eutrophic Mottled-Subnatic Brown Sodosol Very thick Non-gravelly Loamy Clayey Moderately deep | <b>Principal Profile Form:</b> | Dy3.83       |
| <b>ASC Confidence:</b>  | <b>Great Soil Group:</b>       | Solodic soil |

No analytical data are available but confidence is fair.

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

**Vegetation:** Low Strata - Tussock grass, 0.51-1m, Mid-dense. \*Species includes - None recorded  
Mid Strata - Tree, 1.01-3m, Sparse. \*Species includes - Lysiphillum carronii  
Tall Strata - Tree, 6.01-12m, Sparse. \*Species includes - Eucalyptus papuana, Eucalyptus brownii

**Surface Coarse Fragments:** 0-2%, fine gravelly, 2-6mm, angular, Quartz

#### Profile Morphology

|     |               |  |
|-----|---------------|--|
| A11 | 0 - 0.08 m    | Brown (7.5YR5/3-Moist); ; Sandy loam; Massive grade of structure; Moist; Weak consistence; , Calcareous, , , , Gypseous, , , ; Field pH 5.7 (Raupach, 0.05);   |
| A12 | 0.08 - 0.32 m | Brown (7.5YR5/4-Moist); Mottles, 5YR56, 2-10% , 5-15mm, Faint; Mottles, 2-10% ; Sandy loam; Massive grade of structure; Moist; Weak consistence; , Calcareous, , , , Gypseous, , , ; Field pH 6.5 (Raupach, 0.3);              |
| A21 | 0.32 - 0.5 m  | Pale brown (10YR6/3-Moist); ; Sand; Massive grade of structure; Dry; Weak consistence; , Calcareous, , , , Gypseous, , , ;   |
| A22 | 0.5 - 0.65 m  | Pale brown (10YR6/3-Moist); ; Sand; Massive grade of structure; Dry; Rigid consistence; , Calcareous, , , , Gypseous, , , ; Silcrete, Strongly cemented, Continuous, Massive;  |
| B2  | 0.65 - 0.9 m  | Brown (10YR5/3-Moist); Mottles, 10YR58, 2-10% , 5-15mm, Distinct; Mottles, 2-10% ; Sandy light clay; Massive grade of structure; Dry; Very strong consistence; , Calcareous, , , , Gypseous, , , ; Field pH 9 (Raupach, 0.75); |

#### 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