

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 1591 **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>     | 21/04/93             | <b>Elevation:</b> | No Data                 |
| <b>Map Ref.:</b>       | Sheet No. : 8055 GPS | <b>Rainfall:</b>  | No Data                 |
| <b>Northing/Long.:</b> | 7727313 AMG zone: 55 | <b>Runoff:</b>    | Moderately rapid        |
| <b>Easting/Lat.:</b>   | 335222 Datum: AGD66  | <b>Drainage:</b>  | Moderately well 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> | Undulating rises 9-30m 3-10% | <b>Pattern Type:</b>   | Rises           |
| <b>Morph. Type:</b>     | Simple-slope                 | <b>Relief:</b>         | No Data         |
| <b>Elem. Type:</b>      | Hillslope                    | <b>Slope Category:</b> | Gently inclined |
| <b>Slope:</b>           | 5 %                          | <b>Aspect:</b>         | No Data         |

#### Surface Soil Condition (dry):

#### Erosion:

#### Soil Classification

|  |                                |              |
|--|--------------------------------|--------------|
| <b>Australian Soil Classification:</b>   | <b>Mapping Unit:</b>           | N/A          |
| Eutrophic Mottled-Subnatic Brown Sodosol Thick Non-gravelly Loamy Clayey Very deep | <b>Principal Profile Form:</b> | Dy3.43       |
| <b>ASC Confidence:</b>   | <b>Great Soil Group:</b>       | Solodic soil |
| Confidence level not specified   |                                |              |

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

**Vegetation:** Low Strata - Tussock grass, 0.51-1m, Sparse. \*Species includes - Eulalia aurea, Aristida species, Sporobolus caroli  
Mid Strata - Tree, 3.01-6m, Very sparse. \*Species includes - Eucalyptus crebra, Eucalyptus brownii, Petalostigma pubescens  
Tall Strata - Tree, 6.01-12m, Sparse. \*Species includes - Eucalyptus brownii, Eucalyptus crebra

#### Surface Coarse Fragments:

#### Profile Morphology

|     |              |   |
|-----|--------------|---|
| A11 | 0 - 0.15 m   | Dark greyish brown (10YR4/2-Moist); ; Sandy loam; Massive grade of structure; Sandy (grains prominent) fabric; Dry; Very weak consistence; , Calcareous, , , , Gypseous, , , ; Field pH 6.5 (Raupach, 0.05); Clear change to -  |
| A12 | 0.15 - 0.3 m | Dark yellowish brown (10YR4/4-Moist); ; Clayey sand (Heavy); Massive grade of structure; Earthy fabric; Dry; Weak consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , , ; Field pH 6 (Raupach, 0.25); Clear change to -  |
| A2e | 0.3 - 0.5 m  | Yellowish brown (10YR5/4-Moist); ; Clayey sand; Massive grade of structure; Earthy fabric; Dry; Weak consistence; 10-20%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , , ; Field pH 6.5 (Raupach, 0.45); Abrupt change to -  |
| B21 | 0.5 - 0.75 m | Yellowish brown (10YR5/6-Moist); Mottles, 10YR53, 2-10% , 5-15mm, Distinct; Mottles, 2-10% ; Sandy light medium clay; Strong grade of structure, 20-50 mm, Prismatic; Strong grade of structure, 2-5 mm, Polyhedral; Dry; Strong consistence; 2-10%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; , Calcareous, , , , Gypseous, , , ; Field pH 7 (Raupach, 0.6); |
| B22 | 0.75 - 1.2 m | Dark yellowish brown (10YR4/4-Moist); ; Medium clay; Moderate grade of structure, 20-50 mm, Prismatic; Moderate grade of structure, 10-20 mm, Subangular blocky; Dry; Strong consistence; 10-20%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Many cutans, >50% of ped faces or walls coated, distinct; , Calcareous, , , , Gypseous, , , ; Field pH 9 (Raupach, 1.1);  |

#### 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    |

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Laboratory Analyses Completed for this profile