

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR                      **Site ID:** 2270                      **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>     | 25/08/93                | <b>Elevation:</b> | No Data          |
| <b>Map Ref.:</b>       | Sheet No. : 7859    GPS | <b>Rainfall:</b>  | No Data          |
| <b>Northing/Long.:</b> | 7858962 AMG zone: 55    | <b>Runoff:</b>    | Moderately rapid |
| <b>Easting/Lat.:</b>   | 263291    Datum: AGD66  | <b>Drainage:</b>  | Well 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, Graywacke |

#### Land Form

|                         |                              |                        |                 |
|-------------------------|------------------------------|------------------------|-----------------|
| <b>Rel/Slope Class:</b> | Undulating rises 9-30m 3-10% | <b>Pattern Type:</b>   | Rises           |
| <b>Morph. Type:</b>     | Crest                        | <b>Relief:</b>         | No Data         |
| <b>Elem. Type:</b>      | Hillcrest                    | <b>Slope Category:</b> | Gently inclined |
| <b>Slope:</b>           | 4 %                          | <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 Hypocalcic Red Dermosol Thin Non-gravelly Clay-loamy Clayey Moderately deep | <b>Principal Profile Form:</b> | Gn3.16      |
| <b>ASC Confidence:</b>                                                             | <b>Great Soil Group:</b>       | No suitable |

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 - Themeda triandra, Bothriochloa decipiens,  
Heteropogon contortus    Mid Strata - Tree, 6.01-12m, Very sparse. \*Species includes - Eucalyptus erythrophloia, Grewia scabrella

Tall Strata - Tree, 12.01-20m, Sparse. \*Species includes - Eucalyptus crebra, Eucalyptus erythrophloia, Eucalyptus

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

#### Profile Morphology

|     |               |                                                                                                                                                                                                                                                                                                                                                                          |
|-----|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A1  | 0 - 0.05 m    | Very dark greyish brown (10YR3/2-Moist); ; Clay loam, sandy (Light); Massive grade of structure; Earthy fabric; Dry; Very firm consistence; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 0.03); Abrupt change to -                                                                                                                                             |
| A2  | 0.05 - 0.12 m | Dark brown (7.5YR3/4-Moist); ; Clay loam, sandy; Weak grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Common (1-5 per 100mm <sup>2</sup> ) Fine (1-2mm) macropores, Dry; Strong consistence; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 0.1); Clear change to -                                                                          |
| B21 | 0.12 - 0.35 m | Yellowish red (5YR4/6-Moist); ; Light clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Few (<1 per 100mm <sup>2</sup> ) Fine (1-2mm) macropores, Dry; Strong consistence; 0-2%, fine gravelly, 2-6mm, subangular platy, Graywacke, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 0.25); Gradual change to - |
| B3  | 0.35 - 0.6 m  | Light olive brown (2.5Y5/4-Moist); ; Clay loam; Moderate grade of structure, 5-10 mm, Polyhedral; Smooth-ped fabric; Dry; Strong consistence; 50-90%, fine gravelly, 2-6mm, subangular platy, Graywacke, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 8.5 (Raupach, 0.4); Diffuse change to -                                                            |
| C   | 0.6 - 1 m     | Light olive brown (2.5Y5/6-Moist); ; Sandy clay loam; 50-90%, medium gravelly, 6-20mm, subangular platy, Graywacke, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 8.5 (Raupach, 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 |
|-------|------|---------------------------------------|----------|---------|---------|-------|-------|--------|---------|
| m     |      | Sat.                                  | 0.05 Bar | 0.1 Bar | 0.5 Bar | 1 Bar | 5 Bar | 15 Bar |         |
|       |      |                                       |          |         | g/g -   | m3/m3 |       |        | mm/h    |

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Laboratory Analyses Completed for this profile