

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 749 **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>     | 20/09/91             | <b>Elevation:</b> | 270 metres       |
| <b>Map Ref.:</b>       | Sheet No. : 8158 GPS | <b>Rainfall:</b>  | No Data          |
| <b>Northing/Long.:</b> | 7801882 AMG zone: 55 | <b>Runoff:</b>    | Moderately rapid |
| <b>Easting/Lat.:</b>   | 412144 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 rises 9-30m<br>1-3% | <b>Pattern Type:</b>   | Rises              |
| <b>Morph. Type:</b>     | Lower-slope                           | <b>Relief:</b>         | No Data            |
| <b>Elem. Type:</b>      | Hillslope                             | <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>   |  | <b>Mapping Unit:</b>           | N/A          |
| Eutrophic Mottled-Subnatric Grey Sodosol Thick Non-gravelly<br>Clay-loamy Clayey Moderately deep |  | <b>Principal Profile Form:</b> | Dy3.43       |
| <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 - Bothriochloa decipiens, Bothriochloa  
ewartiana,  
Chrysopogon fallax Mid Strata - Tree, 3.01-6m, Isolated plants. \*Species includes - Eucalyptus brownii,  
Eremophila mitchellii, Lysiphillum carronii

Tall Strata - Tree, 12.01-20m, Sparse. \*Species includes - Eucalyptus brownii, Acacia excelsa

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

**Profile Morphology**

|     |               |  |
|-----|---------------|--|
| A11 | 0 - 0.08 m    | Dark brown (10YR3/3-Moist); ; Clay loam; Massive grade of structure; , Calcareous, , , ,<br>Gypseous, , , Field pH 6 (Raupach, 0.05); Clear change to -  |
| A21 | 0.08 - 0.18 m | Brown (10YR4/3-Moist); ; Clay loam (Light); Massive grade of structure; , Calcareous, , , ,<br>Gypseous, , , Clear change to -   |
| A22 | 0.18 - 0.3 m  | Yellowish brown (10YR5/4-Moist); ; Clay loam (Light); Massive grade of structure; ,<br>Calcareous, , , , Gypseous, , , Field pH 6.5 (Raupach, 0.2); Abrupt change to -   |
| B21 | 0.3 - 0.5 m   | Dark greyish brown (10YR4/2-Moist); Mottles, 10YR31, 10-20% , 5-15mm, Distinct; Mottles, 10-<br>20% ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moderate<br>grade of structure, 5-10 mm, Angular blocky; , Calcareous, , , , Gypseous, , , Field pH 9.5<br>(Raupach, 0.4); Clear change to - |
| B22 | 0.5 - 0.6 m   | Brown (10YR4/3-Moist); Mottles, 10YR54, 10-20% , 5-15mm, Distinct; Mottles, 10YR68, 10-20%<br>; Medium heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moderate grade<br>of structure, 5-10 mm, Angular blocky; , Calcareous, , , , Gypseous, , , Field pH 9.5 (Raupach,                                  |

**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 mm/h |

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Laboratory Analyses Completed for this profile