

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 239 **Observation ID:** 1  
**Agency Name:** QLD Department of Primary Industries

#### Site Information

|                        |                      |                   |              |
|------------------------|----------------------|-------------------|--------------|
| <b>Desc. By:</b>       | M. DeCorte           | <b>Locality:</b>  |              |
| <b>Date Desc.:</b>     | 06/06/91             | <b>Elevation:</b> | 210 metres   |
| <b>Map Ref.:</b>       | Sheet No. : 8257 GPS | <b>Rainfall:</b>  | No Data      |
| <b>Northing/Long.:</b> | 7763960 AMG zone: 55 | <b>Runoff:</b>    | No runoff    |
| <b>Easting/Lat.:</b>   | 475108 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, Gabbro |

#### Land Form

|                         |                                   |                        |             |
|-------------------------|-----------------------------------|------------------------|-------------|
| <b>Rel/Slope Class:</b> | Gently undulating plains <9m 1-3% | <b>Pattern Type:</b>   | Plain       |
| <b>Morph. Type:</b>     | Flat                              | <b>Relief:</b>         | No Data     |
| <b>Elem. Type:</b>      | Plain                             | <b>Slope Category:</b> | Level       |
| <b>Slope:</b>           | 1 %                               | <b>Aspect:</b>         | 180 degrees |

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

#### Erosion:

#### Soil Classification

|   |                                |             |
|---|--------------------------------|-------------|
| <b>Australian Soil Classification:</b>                                  | <b>Mapping Unit:</b>           | N/A         |
| Haplic Eutrophic Brown Dermosol Thin Non-gravelly Clayey Clayey Shallow | <b>Principal Profile Form:</b> | Uf6.31      |
| <b>ASC Confidence:</b>  | <b>Great Soil Group:</b>       | No suitable |

All necessary analytical data are available.

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

**Vegetation:** Low Strata - Tussock grass, 0.26-0.5m, Mid-dense. \*Species includes - Bothriochloa pertusa  
Mid Strata - , , . \*Species includes - None recorded  
Tall Strata - Tree, 6.01-12m, Isolated plants. \*Species includes - Eucalyptus erythrophloia

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

#### Profile Morphology

|     |               |  |
|-----|---------------|--|
| A1  | 0 - 0.08 m    | Very dark greyish brown (10YR3/2-Moist); ; Sandy light clay; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Very firm consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Few, fine (1-2mm) roots; Clear, Smooth change to -                                     |
| B21 | 0.08 - 0.25 m | Dark brown (10YR3/3-Moist); ; Light clay; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Strong consistence; Few cutans, <10% of ped faces or walls coated, faint; , Calcareous, , ; , Gypseous, , ; Few, very fine (0-1mm) roots; Clear, Smooth change to - |
| B22 | 0.25 - 0.45 m | Dark yellowish brown (10YR4/4-Moist); ; Clay loam; Weak grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very firm consistence; , Calcareous, , ; , Gypseous, , ; Field pH 8 (Raupach, 0.3); Gradual, Smooth change to -                                 |
| C   | 0.45 - 0.65 m | ; , Calcareous, , ; , Gypseous, , ; Field pH 8.5 (Raupach, 0.6);   |

#### Morphological Notes

#### Observation Notes

#### Site Notes

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**Laboratory Test Results:**

[illegible][illegible][illegible]

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**Laboratory Analyses Completed for this profile**

|         |  |
|---------|--|
| 15F1_CA | Exchangeable bases by 0.01M silver-thiourea (AgTU)+, no pretreatment for soluble salts |
| 15F1_K  | Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts                 |
| 15F1_MG | Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts                 |
| 15F1_NA | Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts                 |
| 15F3    | CEC by 0.01M silver-thiourea (AgTU)+   |
| 15N1    | Exchangeable sodium percentage (ESP)   |
| 4A1     | pH of 1:5 soil/water suspension  |