

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR                      **Site ID:** 775                      **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>     | 02/10/91                | <b>Elevation:</b> | No Data |
| <b>Map Ref.:</b>       | Sheet No. : 8156    GPS | <b>Rainfall:</b>  | No Data |
| <b>Northing/Long.:</b> | 7721196 AMG zone: 55    | <b>Runoff:</b>    | No Data |
| <b>Easting/Lat.:</b>   | 399641    Datum: AGD66  | <b>Drainage:</b>  | No Data |

**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>         | No Data |

**Land Form**

|                         |                     |                        |                |
|-------------------------|---------------------|------------------------|----------------|
| <b>Rel/Slope Class:</b> | Level plain <9m <1% | <b>Pattern Type:</b>   | Alluvial 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>         | No Data        |

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

**Erosion:**

**Soil Classification**

|  |  |                                |           |
|--|--|--------------------------------|-----------|
| <b>Australian Soil Classification:</b>                   |  | <b>Mapping Unit:</b>           | N/A       |
| Endoacidic Crusty Grey Vertosol Non-gravelly Medium fine |  | <b>Principal Profile Form:</b> | Ug5.24    |
| Very fine Deep   |  | <b>Great Soil Group:</b>       | Grey clay |

**ASC Confidence:**

All necessary analytical data are available.

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

**Vegetation:**

Low Strata - , , . \*Species includes - None recorded  
Mid Strata - Tree, 3.01-6m, Sparse. \*Species includes - Lysiphillum carronii, Eremophila mitchellii, Terminalia

oblongata

Tall Strata - Tree, 12.01-20m, Mid-dense. \*Species includes - Acacia cambagei

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

**Profile Morphology**

|     |              |   |
|-----|--------------|---|
| A11 | 0 - 0.03 m   | Greyish brown (10YR5/2-Moist); ; Medium clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Dry; Very strong consistence; , Calcareous, , , , Gypseous, , ; Clear change to -   |
| A12 | 0.03 - 0.3 m | Grey (10YR6/1-Moist); ; Medium clay; Massive grade of structure; Earthy fabric; Dry; Very strong consistence; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Gradual   |
| B21 | 0.3 - 0.9 m  | Dark grey (10YR4/1-Moist); ; Medium clay; Strong grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; Common (10 - 20 %), Manganiferous, Fine (0 - 2 mm), Veins; , Calcareous, , , , Gypseous, , ; Field pH 6 (Raupach, 0.6); Diffuse change to - |
| B22 | 0.9 - 1.4 m  | Light brownish grey (10YR6/2-Moist); ; Medium clay; Strong grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Very strong consistence; , Calcareous, , , , Gypseous, , ; Field pH 5.5 (Raupach, 1.2);  |

**Morphological Notes**

**Observation Notes**

**Site Notes**

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**Laboratory Test Results:**

| Depth      | pH   | 1:5 EC | Ca   | Exchangeable Mg | Cations K | Na          | Exchangeable Acidity | CEC   | ECEC | ESP  |
|------------|------|--------|------|-----------------|-----------|-------------|----------------------|-------|------|------|
| m          |      | dS/m   |      |                 |           | Cmol (+)/kg |                      |       |      | %    |
| 0.03 - 0.3 | 6.2A |        |      |                 |           |             |                      |       |      |      |
| 0.3 - 0.9  | 6.5A |        |      |                 |           |             |                      |       |      |      |
| 0.9 - 1.4  | 5.2A |        | 9.7J | 9.4             | 0.1       | 2.2         |                      | 23.9I |      | 9.2I |

[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  |