

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 71 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

| | | | |
|------------------------|----------------------|-------------------|---------------------|
| Desc. By: | M. DeCorte | Locality: | |
| Date Desc.: | 25/07/90 | Elevation: | 320 metres |
| Map Ref.: | Sheet No. : 8058 GPS | Rainfall: | No Data |
| Northing/Long.: | 7800700 AMG zone: 55 | Runoff: | Rapid |
| Easting/Lat.: | 379025 Datum: AGD66 | Drainage: | Imperfectly drained |

Geology

| | | | |
|----------------------|---------|------------------------------------|---------|
| ExposureType: | No Data | Conf. Sub. is Parent. Mat.: | No Data |
| Geol. Ref.: | No Data | Substrate Material: | No Data |

Land Form

| | | | |
|-------------------------|-----------------------------------|------------------------|--------------------|
| Rel/Slope Class: | Gently undulating plains <9m 1-3% | Pattern Type: | Plain |
| Morph. Type: | Flat | Relief: | No Data |
| Elem. Type: | Plain | Slope Category: | Very gently sloped |
| Slope: | 2 % | Aspect: | 90 degrees |

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

| | | |
|--|--------------------------------|--------------------|
| Australian Soil Classification: | Mapping Unit: | N/A |
| Hypercalcic Mottled-Subnatric Brown Sodosol Medium | Principal Profile Form: | Dy3.33 |
| Moderately gravelly Loamy Clayey Deep | | |
| ASC Confidence: | Great Soil Group: | Solodized solonetz |
| 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, 1.01-3m, Sparse. *Species includes - Eremophila mitchellii, Eucalyptus cambageana, Lysiphillum carronii

Tall Strata - Tree, 12.01-20m, Sparse. *Species includes - Eucalyptus cambageana

Surface Coarse Fragments: 20-50%, coarse gravelly, 20-60mm, rounded, Quartz

Profile Morphology

| | | |
|------|---------------|---|
| A1 | 0 - 0.1 m | Very dark greyish brown (10YR3/2-Moist); ; Coarse sandy loam; Massive grade of structure; Earthy fabric; Dry; Firm consistence; , Calcareous, , , , Gypseous, , , Field pH 5.7 (Raupach, 0.05); Many, fine (1-2mm) roots; Clear, Smooth change to - |
| A2j | 0.1 - 0.13 m | Dark yellowish brown (10YR3/4-Moist); ; Heavy clay; Massive grade of structure; Earthy fabric; Dry; Firm consistence; 0-2%, coarse gravelly, 20-60mm, angular, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , , Common, fine (1-2mm) roots; Abrupt, Smooth change to - |
| B21k | 0.13 - 0.42 m | Brown (10YR5/3-Moist); Mottles, 10YR58, 20-50% , 5-15mm, Distinct; Mottles, 10YR22, 20-50% ; Heavy clay; Strong grade of structure, 50-100 mm, Columnar; Strong grade of structure, 20-50 mm, Angular blocky; Moderately moist; Strong consistence; Common (10 - 20 %), Manganiferous, Medium (2 -6 mm), Nodules; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Nodules; , Gypseous, , , Soil matrix is Very highly calcareous; Field pH 7 (Raupach, 0.3); Few, very fine (0-1mm) roots; Abrupt, Smooth change to - |
| B22c | 0.42 - 0.89 m | Brown (10YR4/3-Moist); Mottles, 10YR21, 20-50% , 5-15mm, Distinct; Mottles, 10YR56, 20-50% ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moderately moist; Strong consistence; Many (20 - 50 %), Manganiferous, Coarse (6 - 20 mm), Veins; , Calcareous, , , , Gypseous, , , Soil matrix is Very highly calcareous; Field pH 9.5 (Raupach, 0.6); Abrupt, Smooth change to - |
| B23c | 0.89 - 1.02 m | Greyish brown (10YR5/2-Moist); Mottles, 10YR21, 10-20% , 5-15mm, Distinct; Mottles, 10-20% ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moderately moist; Strong consistence; Very many (50 - 100 %), Manganiferous, Very coarse (20 - 60 mm), Veins; , Calcareous, , , , Gypseous, , , Field pH 9.5 (Raupach, 0.9); Abrupt, Smooth change to - |
| B24 | 1.02 - 1.3 m | Light brownish grey (10YR6/2-Moist); Mottles, 7.5YR58, 2-10% , 5-15mm, Distinct; Mottles, 2-10% ; Heavy clay; Moderately moist; Strong consistence; , Calcareous, , , , Gypseous, , , |

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

| Depth | pH | 1:5 EC | Ca | Exchangeable Mg | Cations K | Exchangeable Na | CEC | ECEC | ESP |
|-------------|------|--------|------|-----------------|-----------|------------------------|-------|------|-------|
| m | | dS/m | | | | Acidity Cmol (+)/kg | | | % |
| 0 - 0.1 | 6.2A | | 2.9B | 1.2 | 0.16 | 0.1 | | | |
| 0.13 - 0.42 | 8A | | 7.4J | 6.8 | 0.1 | 2.1 | 18.2I | | 11.54 |
| 0.42 - 0.89 | 9.2A | | 6.5E | 7.9 | 0.11 | 4.7 | 19B | | 24.74 |
| 0.89 - 1.02 | 9.5A | | | | | | | | |
| 1.02 - 1.3 | 9A | | 2.7B | 6.4 | 0.1 | 5.4 | 15B | | 36.00 |
| | | | 2.8E | 6.6 | 0.1 | 4.7 | | | 31.33 |

[illegible][illegible]

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Laboratory Analyses Completed for this profile

| | |
|----------|--|
| 10B | Extractable sulfur(mg/kg) - Phosphate extractable sulfur |
| 15A2_CA | Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts |
| 15A2_K | Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts |
| 15A2_MG | Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts |
| 15A2_NA | Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts |
| 15C1_CA | Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts |
| 15C1_CEC | CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts |
| 15C1_K | Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts |
| 15C1_MG | Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts |
| 15C1_NA | Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts |
| 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 |