

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR                      **Site ID:** 534                      **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>	18/06/91	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	Sheet No. : 8158    GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7791191 AMG zone: 55	<b>Runoff:</b>	Very slow
<b>Easting/Lat.:</b>	426699    Datum: AGD66	<b>Drainage:</b>	Rapidly 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, Gravel

**Land Form**

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	Terrace (alluvial)
<b>Morph. Type:</b>	Upper-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Levee	<b>Slope Category:</b>	Very gently sloped
<b>Slope:</b>	2 %	<b>Aspect:</b>	40 degrees

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

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Basic Regolithic Orthic Tenosol Non-gravelly Sandy Sandy		<b>Principal Profile Form:</b>	Uc5.11
Moderately deep		<b>Great Soil Group:</b>	Earthy sand

**ASC Confidence:**

All necessary analytical data are available.

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

**Vegetation:**    Low Strata - Tussock grass, 0.51-1m, Mid-dense. \*Species includes - Chrysopogon fallax, Phynchelytrum repens  
Mid Strata - Tree, 3.01-6m, Isolated plants. \*Species includes - Eucalyptus species, Albizia basaltica  
Tall Strata - Tree, 12.01-20m, Sparse. \*Species includes - Eucalyptus brownii, Eucalyptus papuana, Eucalyptus polycarpa

**Surface Coarse Fragments:**

**Profile Morphology**

A11	0 - 0.08 m	Dark yellowish brown (10YR3/4-Moist); ; Loamy coarse sand; Single grain grade of structure; Smooth-ped fabric; Dry; Very weak consistence; ; Calcareous, , ; ; Gypseous, , ; Field pH 9 (Raupach, 0.05);
A12	0.08 - 0.25 m	Dark yellowish brown (10YR4/4-Moist); ; Loamy coarse sand; Single grain grade of structure; Smooth-ped fabric; Dry; Very weak consistence; 10-20%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; ; Calcareous, , ; ; Gypseous, , ;
A3	0.25 - 0.6 m	Strong brown (7.5YR5/6-Moist); ; Loamy coarse sand; Single grain grade of structure; Smooth-ped fabric; Dry; Very weak consistence; 10-20%, medium gravelly, 6-20mm, subrounded, Quartz, coarse fragments; ; Calcareous, , ; ; Gypseous, , ; Field pH 8.5 (Raupach, 0.6);
C	0.6 - 0.9 m	Strong brown (7.5YR5/6-Moist); ; Coarse sand; Single grain grade of structure; Smooth-ped fabric; Dry; Very weak consistence; 50-90%, medium gravelly, 6-20mm, subrounded, Quartz, coarse fragments; ; Calcareous, , ; ; Gypseous, , ; Field pH 7.5 (Raupach, 0.9);

**Morphological Notes**

**Observation Notes**

**Site Notes**

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**Laboratory Test Results:**

Depth	pH	1:5 EC	Exchangeable	Cations	Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity	%
0 - 0.08	7.4A		3.9B	0.9	0.74	0.06		
0.25 - 0.6	7.3A		1.8B	0.88	0.52	0.05	4.1I	1.22
			4.1J	0.9	0.3	0.3		7.32
0.6 - 0.9	6.9A							

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**Laboratory Analyses Completed for this profile**

10B	Extractable sulfur(mg/kg) - Phosphate extractable sulfur
15A2_CA	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 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
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