

**Project Name:** Regional  
**Project Code:** REG **Site ID:** T280 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

#### Site Information

<b>Desc. By:</b> G.G. Murtha	<b>Locality:</b> At south end of Mundoo air strip:
<b>Date Desc.:</b> 02/07/80	<b>Elevation:</b> 15 metres
<b>Map Ref.:</b> Sheet No. : 8162 1:100000	<b>Rainfall:</b> 3500
<b>Northing/Long.:</b> 146.016666666667	<b>Runoff:</b> No runoff
<b>Easting/Lat.:</b> -17.566666666667	<b>Drainage:</b> Well drained

#### Geology

<b>ExposureType:</b> Undisturbed soil core	<b>Conf. Sub. is Parent. Mat.:</b> No Data
<b>Geol. Ref.:</b> QA	<b>Substrate Material:</b> Undisturbed soil core, Unconsolidated material (unidentified)

#### Land Form

<b>Rel/Slope Class:</b> Gently undulating plains <9m 1-3%	<b>Pattern Type:</b> Alluvial fan
<b>Morph. Type:</b> Upper-slope	<b>Relief:</b> 3 metres
<b>Elem. Type:</b> Fan	<b>Slope Category:</b> Very gently sloped
<b>Slope:</b> 1 %	<b>Aspect:</b> No Data

#### Surface Soil Condition (dry):

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b> N/A
Haplic Dystrophic Red Ferrosol	<b>Principal Profile Form:</b> Gn3.11
<b>ASC Confidence:</b>	<b>Great Soil Group:</b> Krasnozem
All necessary analytical data are available.	

**Site Disturbance:** Complete clearing. Pasture, native or improved, cultivated at some stage

#### Vegetation:

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

#### Profile Morphology

A11	0 - 0.1 m	Dark reddish brown (5YR3/4-Moist); ; Clay loam; Strong grade of structure, 5-10 mm, Cast; Moist; Weak consistence; Few (2 - 10 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules; Gradual change to -
A12	0.1 - 0.2 m	Reddish brown (5YR4/4-Moist); ; Clay loam; Strong grade of structure, 5-10 mm, Cast; Moist; Weak consistence; Few (2 - 10 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules; Diffuse change to -
B11	0.2 - 0.3 m	Yellowish red (5YR4/6-Moist); ; Clay loam; Massive grade of structure; Moist; Weak consistence; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Nodules;
B11	0.3 - 0.6 m	Dark red (2.5YR3/5-Moist); ; Light clay (Light); Massive grade of structure; Moist; Weak consistence; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Diffuse change to -
B12	0.6 - 0.9 m	Dark red (2.5YR3/6-Moist); ; Light clay; Massive grade of structure; Moist; Weak consistence; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Nodules;
B12	0.9 - 1.2 m	Dark red (2.5YR3/6-Moist); ; Light clay; Massive grade of structure; Moist; Weak consistence; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Diffuse change to -
B21	1.2 - 1.5 m	Dark red (2.5YR3/6-Moist); ; 7.5YR54, 2-10% , 5-15mm, Distinct; , 2-10% , 5-15mm, Distinct; Light medium clay; Moderate grade of structure, 5-10 mm, Angular blocky; Moist; Weak consistence; 2-10%, coarse gravelly, 20-60mm, subrounded, Metamorphic rock (unidentified), coarse fragments; Few (2 - 10 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules;
B21	1.5 - 1.8 m	Dark red (2.5YR3/6-Moist); ; 7.5YR54, 2-10% , 5-15mm, Distinct; , 2-10% , 5-15mm, Distinct; Light medium clay; Moderate grade of structure, 5-10 mm, Angular blocky; Moist; Weak consistence; 2-10%, coarse gravelly, 20-60mm, subrounded, Metamorphic rock (unidentified), coarse fragments; Few (2 - 10 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules;
	1.8 - 2.1 m	Yellowish red (5YR4/6-Moist); ; Medium clay; Moderate grade of structure, 5-10 mm, Angular blocky; Weak consistence;

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2.1 - 2.5 m	Brown (7.5YR4/4-Moist); , 5YR44, 10-20% , 5-15mm, Faint; , 10-20% , 5-15mm, Faint; Medium clay; Moderate grade of structure, 5-10 mm, Angular blocky; Very firm consistence; Very few (0 - 2 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules;
2.5 - 3 m	Brown (7.5YR4/4-Moist); , 5YR44, 10-20% , 5-15mm, Faint; , 10-20% , 5-15mm, Faint; Medium clay; Moderate grade of structure, 5-10 mm, Angular blocky; Very firm consistence; Very few (0 - 2 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules;
3 - 3.5 m	Strong brown (7.5YR5/6-Moist); , 2.5YR46, 2-10% , 5-15mm, Distinct; , 2-10% , 5-15mm, Distinct; Medium clay; Moderate grade of structure, 5-10 mm, Angular blocky; Very firm consistence;
3.5 - 4 m	Strong brown (7.5YR5/6-Moist); , 2.5YR46, 2-10% , 5-15mm, Distinct; , 2-10% , 5-15mm, Distinct; Medium clay; Moderate grade of structure, 5-10 mm, Angular blocky; Very firm consistence;

**Morphological Notes**

**Observation Notes**

FINE QZ VISIBLE THROUGHOUT MOST OF PROFILE

**Site Notes**

MUNDOO

**Observation ID: 1**

[illegible]

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**Laboratory Analyses Completed for this profile**

10A1	Total sulfur - X-ray fluorescence
13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
15A2_CEC	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15D1_CEC	CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
15E1_CA	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) by compulsive exchange, no pretreatment for soluble
15E1_K	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15G_C	Exchange acidity (hydrogen and aluminium) - meq per 100g of soil - By 1M KCl exch. acidity by titration to pH 8.4
15J1	Effective CEC
17A1	Total potassium - X-ray fluorescence
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9A1	Total phosphorus - X-ray fluorescence
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H <sub>2</sub> SO <sub>4</sub> (BSES)
MIN_EC	Exchange Capacity - Minerology
P10_CF_C	Clay (%) - Coventry and Fett pipette method
P10_CF_CS	Coarse sand (%) - Coventry and Fett pipette method
P10_CF_FS	Fine sand (%) - Coventry and Fett pipette method
P10_CF_Z	Silt (%) - Coventry and Fett pipette method
P10_GRAV	Gravel (%)
XRD_C_Gb	Gibbsite - X-Ray Diffraction
XRD_C_Gt	Goethite - X-Ray Diffraction
XRD_C_K2O	K <sub>2</sub> O - X-Ray Diffraction or Clay Fraction (air dry)
XRD_C_Ka	Kaolin - X-Ray Diffraction