

**Project Name:** WQA  
**Project Code:** WQA      **Site ID:** B626      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

**Site Information**

<b>Desc. By:</b>	G.D. Hubble	<b>Locality:</b>	
<b>Date Desc.:</b>	01/09/69	<b>Elevation:</b>	140 metres
<b>Map Ref.:</b>	Sheet No. : 7547 1:100000	<b>Rainfall:</b>	293
<b>Northing/Long.:</b>	143.208333333333	<b>Runoff:</b>	Rapid
<b>Easting/Lat.:</b>	-25.677777777778	<b>Drainage:</b>	Moderately well drained

**Geology**

<b>ExposureType:</b>	Auger boring	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	Q	<b>Substrate Material:</b>	Auger boring, 1.2 m deep, Unconsolidated material (unidentified)

**Land Form**

<b>Rel/Slope Class:</b>	Gently undulating plains <9m 1-3%	<b>Pattern Type:</b>	Alluvial plain
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Plain	<b>Slope Category:</b>	No Data
<b>Slope:</b>	0 %	<b>Aspect:</b>	No Data

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

**Erosion:** Severe (wind);

**Soil Classification**

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Eutrophic Subnatric Red Sodosol	<b>Principal Profile Form:</b>	Dr2.41
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Red-brown earth
All necessary analytical data are available.		

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

**Vegetation:**

Tall Strata - Tree, 3.01-6m, Very sparse. \*Species includes - Acacia cambagei

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

**Profile Morphology**

A1	0 - 0.1 m	Reddish brown (5YR5/4-Moist); Reddish yellow (5YR6/5-Dry); ; Fine sandy loam; Moderate grade of structure, Platy; Fine (1-2mm) macropores, Dry; Weak consistence; Sharp change to -
A2	0.1 - 0.14 m	Pinkish white (7.5YR8/3-Dry); ; Loam; Massive grade of structure; Fine (1-2mm) macropores, Dry; Weak consistence; Sharp change to -
B2	0.14 - 0.2 m	Reddish brown (5YR4/4-Moist); ; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Dry; Very firm consistence; Gradual change to -
B2	0.2 - 0.3 m	Reddish brown (5YR4/4-Moist); ; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Dry; Very firm consistence; Gradual change to -
B2	0.3 - 0.4 m	Reddish brown (5YR4/4-Moist); ; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Dry; Very firm consistence; Gradual change to -
B2	0.4 - 0.6 m	Reddish brown (5YR4/4-Moist); ; Light clay; , Angular blocky; Dry; Very firm consistence; Gradual change to -
B2	0.6 - 0.9 m	Yellowish brown (10YR5/4-Moist); ; Light clay; , Angular blocky; Dry; Very firm consistence; Gradual change to -
B3	0.9 - 1.2 m	Pale brown (10YR6/3-Dry); , 10YR72, 0-2% , 0-5mm, Faint; , 0-2% , 0-5mm, Faint; Sandy medium clay; , Angular blocky; Dry; Very firm consistence; Diffuse change to -
C	1.2 - 1.3 m	Light yellowish brown (10YR6/4-Dry); , 10YR72, 20-50% , 5-15mm, Distinct; , 7.5YR55, 20-50% , 5-15mm, Distinct; Sandy medium clay; Massive grade of structure; Dry; Very firm consistence; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Soft segregations; Very few (0 - 2 %), Gypseous, , Crystals;
	1.3 - 1.5 m	Light yellowish brown (10YR6/4-Dry); , 10YR72, 20-50% , 5-15mm, Distinct; , 7.5YR55, 20-50% , 5-15mm, Distinct; Sandy clay loam (Heavy); Massive grade of structure; Very firm consistence; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Soft segregations; Very few (0 - 2 %), Gypseous, , Crystals;

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1.5 - 1.8 m	Light yellowish brown (10YR6/4-Dry); , 10YR72, 20-50% , 5-15mm, Distinct; , 7.5YR55, 20-50% , 5-15mm, Distinct; Sandy clay loam (Heavy); Massive grade of structure; Very firm consistence; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Soft segregations; Very few (0 - 2 %), Gypseous, , Crystals;
1.8 - 2 m	White (10YR8/2-Dry); , 7.5YR64, 20-50% , 5-15mm, Distinct; , 10YR58, 20-50% , 5-15mm, Distinct; Light clay; Massive grade of structure; Very firm consistence; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Soft segregations; Very few (0 - 2 %), Gypseous, , Crystals;

**Morphological Notes**

**Observation Notes**

**Site Notes**

HAMPOON BORE

**Observation ID: 1**

[illegible]

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**Laboratory Analyses Completed for this profile**

10A_NR	Total element - S(%) - Not recorded
15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded
15_NR_H	Hydrogen Cation - meq per 100g of soil - Not recorded
15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15_NR_MG	Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
15_NR_NA	Exch. basic cations (Na++) - meq per 100g of soil - Not recorded
17A_NR	Total element - K(%) - Not recorded
2_LOI	Loss on Ignition (%)
2A1	Air-dry moisture content
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
5_NR	Water soluble Chloride - Cl(%) - Not recorded
6A1	Organic carbon - Walkley and Black
7_NR	Total nitrogen (%) - Not recorded
9A_NR	Total element - P(%) - Not recorded
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)
P10_NR_C	Clay (%) - Not recorded
P10_NR_CS	Coarse sand (%) - Not recorded
P10_NR_FS	Fine sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded
XRD_C_II	Illite - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Mm	Montmorillonite - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction