

Project Name: WQA
Project Code: WQA **Site ID:** B615 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	Locality:	
Date Desc.:	01/09/69	Elevation:	97 metres
Map Ref.:	Sheet No. : 7147 1:100000	Rainfall:	225
Northing/Long.:	141.35	Runoff:	No Data
Easting/Lat.:	-25.1875	Drainage:	No Data

Geology

Exposure Type:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Qa	Substrate Material:	Auger boring, 0.2 m deep, Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Dunefield
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	Swale	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Surface crust

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Eutrophic Yellow Kandosol		Principal Profile Form:	Uf6.33
ASC Confidence:		Great Soil Group:	Solonchak
All necessary analytical data are available.			

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

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.1 m	Brown (7.5YR5/4-Moist); ; Light clay; Strong grade of structure, 2-5 mm, Polyhedral; Dry; Loose consistence; 0-2%, Quartz, coarse fragments; Field pH 7.8 (pH meter); Gradual change to -
A12	0.1 - 0.2 m	Reddish brown (5YR5/4-Moist); ; Light clay; Moderate grade of structure, 5-10 mm, Polyhedral; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Very firm consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 7.9 (pH meter); Gradual
C	0.2 - 0.3 m	Light yellowish brown (10YR6/4-Moist); ; Clay loam (Heavy); Massive grade of structure; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Very firm consistence; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 7.9 (pH meter); Gradual change to -
	0.3 - 0.45 m	Light yellowish brown (10YR6/4-Moist); ; Clay loam (Heavy); Massive grade of structure; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Very firm consistence; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 7.7 (pH meter); Gradual change to -
	0.45 - 0.6 m	Light yellowish brown (10YR6/4-Moist); ; Sandy clay loam; Massive grade of structure; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Very firm consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Other pans; Field pH 7.5 (pH meter); Gradual change to -
	0.6 - 0.9 m	Light yellowish brown (10YR6/4-Moist); ; Sandy clay loam (Light); Massive grade of structure; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Very firm consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Other pans; Field pH 7.6 (pH meter); Gradual change to -
	0.9 - 1.2 m	Yellowish brown (10YR5/4-Moist); ; Sandy clay loam (Light); Massive grade of structure; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Very firm consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Other pans; Field pH 7.6 (pH meter); Gradual change to -
	1.2 - 1.5 m	Pale yellow (2.5Y8/4-Dry); ; Clayey sand (Heavy); Massive grade of structure; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Very firm consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Calcareous, , ; Other pans; Field pH 8.2 (pH meter); Gradual change to -

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1.5 - 1.8 m	Very pale brown (10YR7/4-Dry); ; Clayey sand (Heavy); Massive grade of structure; Many (>5 per 100mm ²) Very fine (0.075-1mm) macropores, Firm consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Calcareous, , ; Other pans; Field pH 8.4 (pH meter); Gradual change to -
1.8 - 2 m	Very pale brown (10YR7/4-Dry); ; Clayey sand; Massive grade of structure; Many (>5 per 100mm ²) Very fine (0.075-1mm) macropores, Firm consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Calcareous, , ; Other pans; Field pH 8.3 (pH meter);

Morphological Notes

Observation Notes

CLAYPAN: NO VEGETATION AT SITE.

Site Notes

CURRAWILLA

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[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
19B_NR	Calcium Carbonate (CaCO ₃) - 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 H ₂ SO ₄ (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