

Project Name: WQA
Project Code: WQA **Site ID:** B616 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	Locality:	
Date Desc.:	01/09/69	Elevation:	140 metres
Map Ref.:	Sheet No. : 7147 1:100000	Rainfall:	225
Northing/Long.:	141.425	Runoff:	Rapid
Easting/Lat.:	-25.3388888888889	Drainage:	Imperfectly drained

Geology

ExposureType:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Q	Substrate Material:	Auger boring, 0.6 m deep, Unconsolidated material (unidentified)

Land Form

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

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Eutrophic Red Chromosol		Principal Profile Form:	Dr1.13
ASC Confidence:		Great Soil Group:	Desert loam

All necessary analytical data are available.

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

Vegetation:

Surface Coarse Fragments: 90-100%, medium gravelly, 6-20mm, , Gravel

Profile Morphology

A1	0 - 0.05 m	Yellowish red (5YR4/8-Moist); Yellowish red (5YR5/8-Dry); ; Fine sandy clay loam; Massive grade of structure; Dry; Weak consistence; 10-20%, medium gravelly, 6-20mm, Gravel, coarse fragments; Abrupt change to -
B2	0.05 - 0.1 m	Dark red (2.5YR3/8-Moist); Red (2.5YR4/8-Dry); ; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Dry; Very firm consistence; 2-10%, medium gravelly, 6-20mm, Gravel, coarse fragments; Clear change to -
B2	0.1 - 0.2 m	Red (2.5YR4/8-Dry); ; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Dry; Very firm consistence; Gradual change to -
B2	0.2 - 0.3 m	Red (2.5YR4/8-Dry); ; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Dry; Very firm consistence; Gradual change to -
B3	0.3 - 0.6 m	Red (2.5YR4/8-Dry); ; Light medium clay; , Angular blocky; Dry; Very firm consistence; Gradual change to -
C	0.6 - 0.9 m	Red (2.5YR4/6-Moist); Light red (2.5YR6/6-Dry); ; Clay loam; Massive grade of structure; Moderately moist; Firm consistence; Gradual change to -
	0.9 - 1.2 m	Reddish yellow (5YR6/6-Dry); ; Fine sandy clay loam; Massive grade of structure; Firm consistence; Gradual change to -
	1.2 - 1.5 m	Reddish yellow (5YR6/6-Dry); ; Fine sandy clay loam; Massive grade of structure; Firm consistence; 10-20%, Gravel, coarse fragments; Gradual change to -
	1.5 - 1.65 m	Reddish yellow (5YR6/6-Dry); ; Fine sandy clay loam; Massive grade of structure; Firm consistence; 50-90%, rounded, Gravel, coarse fragments;

Morphological Notes

Observation Notes

NO VEGETATION AT SITE: SITE IS ON A VERY SLIGHT RISE.

Site Notes

HADDON

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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	Acidity		%
						Cmol (+)/kg			
0 - 0.05	6.9H	0.012B							
0.05 - 0.1	7.3H	0.018B							
0.1 - 0.2	7.4H	0.024B							
0.2 - 0.3	7.4H	0.056B	10.3K	6.7	0.92	1.1	2.6D		
0.3 - 0.6	7.8H	0.051B							
0.6 - 0.9	8H	0.15B							
0.9 - 1.2	7.8H	0.43B							
1.2 - 1.5	6.9H	0.66B							
1.5 - 1.65	6.5H	0.46B							

Depth m	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density Mg/m3	Particle		Size FS %	Analysis	
	%	%	mg/kg	%	%	%		GV	CS		Silt	Clay
0 - 0.05		0.23A	44B	0.032F	0.03B	0.65B			19C	48	4	28
0.05 - 0.1		0.12A	14B	0.028F	0.02B	0.72B			16C	44	11	29
0.1 - 0.2		0.13A										
0.2 - 0.3		0.14A		0.026F	0.024B	0.77B			11C	36	4	47
0.3 - 0.6	0.05C	0.11A		0.022F	0.026B	0.65B						
0.6 - 0.9	0.05C	0.05A										
0.9 - 1.2	0.07C	0.04A		0.023F	0.011B	0.57B			15C	52	19	12
1.2 - 1.5												
1.5 - 1.65				0.026F		0.59B			16C	46	21	17

[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_Is	Interstratified clay minerals - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction