Project Name: Project Code: Agency Name:	WQA WQA Site ID: CSIRO Division of Soils (		Observation ID:	1
Site Informatio Desc. By: Date Desc.: Map Ref.: Northing/Long.: Easting/Lat.:	n G.D. Hubble 01/09/69 Sheet No. : 7547 1:100000 143.063888888889 -25.64166666666667	Locality: Elevation: Rainfall: Runoff: Drainage:	146 metres 293 No Data No Data	
<u>Geology</u> ExposureType: Geol. Ref.:	Soil pit Tg	Conf. Sub. is Pare Substrate Materia		ta boring, 1.2 m deep,Mudstone
Land Form Rel/Slope Class:	Gently undulating plains <9m 1 3%	- Pattern Type:	Plain	
Morph. Type: Elem. Type: Slope:	No Data Plain 0 %	Relief: Slope Category: Aspect:	No Data Gently inclined No Data	
Surface Soil Co	ondition (dry): Hardsetting			
Erosion:				
Soil Classificat	<u>tion</u>			
Australian Soil C	lassification:	Марр	ing Unit:	N/A
Haplic Eutrophic I			ipal Profile Form:	Gn2.12
ASC Confidence		Great	Soil Group:	Red earth
	alytical data are available. <b>ce:</b> No effective disturbance other	r than grazing by boof	od animals	
Vegetation:		T than grazing by noon	eu aminais	
vegetation.	Tall Strata - Tree, 3.01-6m, Is	solated clumps. *Speci	ies includes - Acacia	a aneura, Grevillea striata
Surface Coarse	e Fragments: 0-2%, medium gr	avelly, 6-20mm, round	ded, Gravel	
Profile Morpho	logy			
A1 0 - 0.1 m		nsistence; 2-10%, fine		n (Heavy); Massive grade of ubstrate material, coarse
0.1 - 0.2	m Yellowish red (5YR4/6-Mo structure; Weak consister			
0.2 - 0.3	m Yellowish red (5YR4/6-Mo 10%, fine gravelly, 2-6mm			ure; Weak consistence; 2-
0.3 - 0.5		bist); ; Clay loam (Hea dium gravelly, 6-20mn	vy); Massive grade n, Substrate materia	of structure; Weak al, coarse fragments; Gradual
0.5 - 0.6				de of structure, Polyhedral; aterial, coarse fragments;
0.6 - 0.8	m Red (2.5YR4/5-Moist); ; L 10%, medium gravelly, 6-			edral; Firm consistence; 2- ents; Gradual change to -
0.8 - 0.9	m Red (2.5YR4/5-Moist); , 1 Weak grade of structure, fragments;			5mm, Faint; Light clay (Heavy); ibstrate material, coarse
B3 0.9 - 0.9	7 m Reddish yellow (5YR6/6-I Light medium clay; Weak Mudstone, coarse fragme	grade of structure, Po		; , 20-50% , 0-5mm, Distinct; consistence; 2-10%,
B3 0.97 - 1.	2 m Reddish yellow (5YR6/6-I Light medium clay; Weak Mudstone, coarse fragme	grade of structure, Po		; , 20-50% , 0-5mm, Distinct; consistence; 20-50%,
Morphological	Notes			
Observation N				
	<u></u>			

Site Notes

Project Name:WQAProject Code:WQASite ID:B625Agency Name:CSIRO Division of Soils (QLD)

Observation ID: 1

HAMPOON BORE

Project Name:	WQA				
Project Code:	WQA	Site ID:	B625	<b>Observation ID:</b>	1
Agency Name:	CSIRO Division	of Soils (Q	LD)		

## Laboratory Test Results:

Depth	рН	1:5 EC C	Ex a	changeable Mg	e Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	-	9		Cmol				%
0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.5 0.5 - 0.6 0.6 - 0.8 0.8 - 0.9 0.9 - 0.97 0.97 - 1.2	5.1H 4.6H 4.4H 4.8H 5.8H 8.4H 8.5H 7.9H 6.3H	0.011B 0.022B 0.028B 0.028B 0.026B 0.08B 0.077B 0.057B 0.064B	1.7К 7.9К	0.67 5.6	0.84	0.09	5D 0D			

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Pa GV	article CS	Size FS	Analysi Silt	s Clav
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1 0.1 - 0.2		0.3A 0.35A	8B	0.038F	0.033B	0.41B			19C	49	) 11	20
0.2 - 0.3 0.3 - 0.5 0.5 - 0.6		0.29A 0.18A 0.15A		0.035F	0.034B	0.4B			17C	44	• 7	32
0.6 - 0.8 0.8 - 0.9	0.94C 0.23C			0.029F	0.019B	0.39B			16C	36	6	41
0.9 - 0.97 0.97 - 1.2	0.04C	; 0.12A		0.021F 0.056F	0.013B	0.37B 0.31B			10C	32	2 14	43

Depth	COLE		Grav	vimetric/Vo	olumetric W	ater Cont	ents		K sat	K unsat
		Sat.	0.05 Bar			1 Bar	5 Bar	15 Bar		_
m				g/	/g - m3/m3	3			mm/h	mm/h

 $\begin{array}{c} 0 - 0.1 \\ 0.1 - 0.2 \\ 0.2 - 0.3 \\ 0.3 - 0.5 \\ 0.5 - 0.6 \\ 0.6 - 0.8 \\ 0.8 - 0.9 \\ 0.9 - 0.97 \\ 0.97 - 1.2 \end{array}$ 

Project Name:	WQA		
Project Code:	WQA	Site ID:	B625
Agency Name:	CSIRO Div	ision of Soils (C	QLD)

## Observation ID: 1

## Laboratory Analyses Completed for this profile

19B_NRCalcium Carbonate (CaCO3) - Not recorded2_LOILoss on Ignition (%)2A1Air-dry moisture content3_NRElectrical conductivity or soluble salts - Not recorded4_NRpH of soil - Not recorded5_NRWater soluble Chloride - Cl(%) - Not recorded6A1Organic carbon - Walkley and Black7_NRTotal nitrogen (%) - Not recorded9A_NRTotal element - P(%) - Not recorded9G_BSESAvailable P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)P10_NR_CClay (%) - Not recordedP10_NR_FSFine sand (%) - Not recordedP10_NR_ZSilt (%) - Not recordedP2_C_IIIllite - X-Ray DiffractionXRD_C_KaKaolin - X-Ray DiffractionXRD_C_QzQuartz - X-Ray Diffraction	10A_NR 15_NR_CA 15_NR_H 15_NR_K 15_NR_MG 15_NR_NA 17A_NR	Total element - S(%) - Not recorded Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded Hydrogen Cation - meq per 100g of soil - Not recorded Exch. basic cations (K++) - meq per 100g of soil - Not recorded Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded Exch. basic cations (Na++) - meq per 100g of soil - Not recorded Total element - K(%) - Not recorded
2A1Air-dry moisture content3_NRElectrical conductivity or soluble salts - Not recorded4_NRpH of soil - Not recorded5_NRWater soluble Chloride - Cl(%) - Not recorded6A1Organic carbon - Walkley and Black7_NRTotal nitrogen (%) - Not recorded9A_NRTotal element - P(%) - Not recorded9G_BSESAvailable P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)P10_NR_CClay (%) - Not recordedP10_NR_TSFine sand (%) - Not recordedP10_NR_ZSilt (%) - Not recordedP10_NR_ZSilt (%) - Not recordedXRD_C_IIIllite - X-Ray DiffractionXRD_C_KaKaolin - X-Ray DiffractionXRD_C_MmMontmorillonite - X-Ray Diffraction	—	
3_NRElectrical conductivity or soluble salts - Not recorded4_NRpH of soil - Not recorded5_NRWater soluble Chloride - Cl(%) - Not recorded6A1Organic carbon - Walkley and Black7_NRTotal nitrogen (%) - Not recorded9A_NRTotal element - P(%) - Not recorded9G_BSESAvailable P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)P10_NR_CClay (%) - Not recordedP10_NR_FSFine sand (%) - Not recordedP10_NR_ZSilt (%) - Not recordedP10_NR_ZSilt (%) - Not recordedNR_C_IIIllite - X-Ray DiffractionXRD_C_ISInterstratified clay minerals - X-Ray DiffractionXRD_C_KaKaolin - X-Ray DiffractionXRD_C_MmMontmorillonite - X-Ray Diffraction		0 ( )
4_NRpH of soil - Not recorded5_NRWater soluble Chloride - Cl(%) - Not recorded6A1Organic carbon - Walkley and Black7_NRTotal nitrogen (%) - Not recorded9A_NRTotal element - P(%) - Not recorded9G_BSESAvailable P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)P10_NR_CClay (%) - Not recordedP10_NR_SFine sand (%) - Not recordedP10_NR_ZSilt (%) - Not recordedP10_NR_ZSilt (%) - Not recordedNR_C_IIIllite - X-Ray DiffractionXRD_C_IsInterstratified clay minerals - X-Ray DiffractionXRD_C_MmMontmorillonite - X-Ray Diffraction		
5_NRWater soluble Chloride - Cl(%) - Not recordede6A1Organic carbon - Walkley and Black7_NRTotal nitrogen (%) - Not recorded9A_NRTotal element - P(%) - Not recorded9G_BSESAvailable P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)P10_NR_CClay (%) - Not recordedP10_NR_CSCoarse sand (%) - Not recordedP10_NR_FSFine sand (%) - Not recordedP10_NR_ZSilt (%) - Not recordedP10_NR_ZSilt (%) - Not recordedNRD_C_IIIllite - X-Ray DiffractionXRD_C_KaKaolin - X-Ray DiffractionXRD_C_MmMontmorillonite - X-Ray Diffraction		,
6A1Organic carbon - Walkley and Black7_NRTotal nitrogen (%) - Not recorded9A_NRTotal element - P(%) - Not recorded9G_BSESAvailable P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)P10_NR_CClay (%) - Not recordedP10_NR_CSCoarse sand (%) - Not recordedP10_NR_FSFine sand (%) - Not recordedP10_NR_ZSilt (%) - Not recordedXRD_C_IIIllite - X-Ray DiffractionXRD_C_KaKaolin - X-Ray DiffractionXRD_C_MmMontmorillonite - X-Ray Diffraction		
7_NRTotal nitrogen (%) - Not recorded9A_NRTotal element - P(%) - Not recorded9G_BSESAvailable P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)P10_NR_CClay (%) - Not recordedP10_NR_CSCoarse sand (%) - Not recordedP10_NR_FSFine sand (%) - Not recordedP10_NR_ZSilt (%) - Not recordedNR_C_IIIllite - X-Ray DiffractionXRD_C_IsInterstratified clay minerals - X-Ray DiffractionXRD_C_MmMontmorillonite - X-Ray Diffraction	_	
9A_NRTotal element - P(%) - Not recorded9G_BSESAvailable P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)P10_NR_CClay (%) - Not recordedP10_NR_CSCoarse sand (%) - Not recordedP10_NR_FSFine sand (%) - Not recordedP10_NR_ZSilt (%) - Not recordedXRD_C_IIIllite - X-Ray DiffractionXRD_C_KaKaolin - X-Ray DiffractionXRD_C_MmMontmorillonite - X-Ray Diffraction	-	<b>o</b> ,
9G_BSESAvailable P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)P10_NR_CClay (%) - Not recordedP10_NR_CSCoarse sand (%) - Not recordedP10_NR_FSFine sand (%) - Not recordedP10_NR_ZSilt (%) - Not recordedXRD_C_IIIllite - X-Ray DiffractionXRD_C_IsInterstratified clay minerals - X-Ray DiffractionXRD_C_KaKaolin - X-Ray DiffractionXRD_C_MmMontmorillonite - X-Ray Diffraction	_	
P10_NR_CClay (%) - Not recordedP10_NR_CSCoarse sand (%) - Not recordedP10_NR_FSFine sand (%) - Not recordedP10_NR_ZSilt (%) - Not recordedXRD_C_IIIllite - X-Ray DiffractionXRD_C_IsInterstratified clay minerals - X-Ray DiffractionXRD_C_KaKaolin - X-Ray DiffractionXRD_C_MmMontmorillonite - X-Ray Diffraction	9A_NR	Total element - P(%) - Not recorded
P10_NR_CSCoarse sand (%) - Not recordedP10_NR_FSFine sand (%) - Not recordedP10_NR_ZSilt (%) - Not recordedXRD_C_IIIllite - X-Ray DiffractionXRD_C_IsInterstratified clay minerals - X-Ray DiffractionXRD_C_KaKaolin - X-Ray DiffractionXRD_C_MmMontmorillonite - X-Ray Diffraction	9G_BSES	
P10_NR_FSFine sand (%) - Not recordedP10_NR_ZSilt (%) - Not recordedXRD_C_IIIllite - X-Ray DiffractionXRD_C_IsInterstratified clay minerals - X-Ray DiffractionXRD_C_KaKaolin - X-Ray DiffractionXRD_C_MmMontmorillonite - X-Ray Diffraction	P10_NR_C	Clay (%) - Not recorded
P10_NR_ZSilt (%) - Not recordedXRD_C_IIIllite - X-Ray DiffractionXRD_C_IsInterstratified clay minerals - X-Ray DiffractionXRD_C_KaKaolin - X-Ray DiffractionXRD_C_MmMontmorillonite - X-Ray Diffraction		Coarse sand (%) - Not recorded
XRD_C_IIIllite - X-Ray DiffractionXRD_C_IsInterstratified clay minerals - X-Ray DiffractionXRD_C_KaKaolin - X-Ray DiffractionXRD_C_MmMontmorillonite - X-Ray Diffraction		
XRD_C_IsInterstratified clay minerals - X-Ray DiffractionXRD_C_KaKaolin - X-Ray DiffractionXRD_C_MmMontmorillonite - X-Ray Diffraction		
XRD_C_Ka Kaolin - X-Ray Diffraction   XRD_C_Mm Montmorillonite - X-Ray Diffraction		
XRD_C_Mm Montmorillonite - X-Ray Diffraction		
XRD_C_Qz Quartz - X-Ray Diffraction		
	XRD_C_Qz	Quartz - X-Ray Diffraction