

**Project Name:** LOC  
**Project Code:** LOC      **Site ID:** B1019      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

**Site Information**

<b>Desc. By:</b>	K.J. Smith	<b>Locality:</b>	
<b>Date Desc.:</b>	//	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	Sheet No. : 9342    1:100000	<b>Rainfall:</b>	0
<b>Northing/Long.:</b>	152.462777777778	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	-27.6386111111111	<b>Drainage:</b>	Poorly drained

**Geology**

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

**Land Form**

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	Low hills
<b>Morph. Type:</b>	Lower-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	No Data	<b>Slope Category:</b>	No Data
<b>Slope:</b>	6.6 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>	N/A	<b>Mapping Unit:</b>	N/A
<b>ASC Confidence:</b>	Confidence level not specified	<b>Principal Profile Form:</b>	Db2.21
		<b>Great Soil Group:</b>	Soloth

**Site Disturbance:** Cultivation. Irrigated, past or present

**Vegetation:**

**Surface Coarse Fragments:**

**Profile Morphology**

A1	0 - 0.24 m	Dark brown (7.5YR3/2-Moist); ; Fine sandy loam; Moderate grade of structure, 5-10 mm, Subangular blocky; Moderately moist; Very weak consistence; Field pH 5.5 (pH meter); CommonGradual change to -
A2	0.24 - 0.48 m	Brown (10YR4/3-Moist); ; Clay loam, fine sandy; Weak grade of structure, Angular blocky; Moderately moist; Weak consistence; Field pH 5.5 (pH meter); FewClear change to -
B21	0.48 - 0.65 m	Brown (7.5YR5/3-Moist); ; 2.5YR48, 2-10% , 15-30mm, Distinct; , 2-10% , 15-30mm, Distinct; Medium clay; Moderate grade of structure, Angular blocky; Moist; Firm consistence; Field pH 5.5 (pH meter); Diffuse change to -
B22	0.65 - 1.05 m	Very pale brown (10YR7/3-Moist); , 2.5YR46, 2-10% , 15-30mm, Distinct; , 2-10% , 15-30mm, Distinct; Medium heavy clay; Moderate grade of structure, Angular blocky; Moist; Firm consistence; Field pH 5.5 (pH meter);
	1.05 - 1.2 m	Very pale brown (10YR7/3-Moist); , 2.5YR46, 2-10% , 15-30mm, Distinct; , 2-10% , 15-30mm, Distinct; Medium heavy clay; Moderate grade of structure, Angular blocky; Firm consistence; Field pH 5.8 (pH meter);
	1.2 - 2 m	Very pale brown (10YR7/3-Moist); , 2.5YR46, 2-10% , 15-30mm, Distinct; , 2-10% , 15-30mm, Distinct; Medium heavy clay; Moderate grade of structure, Angular blocky; Firm consistence;
	2 - 2.3 m	;

**Morphological Notes**

**Observation Notes**

**Site Notes**

LOCKYER

**Observation ID: 1**

**Laboratory Test Results:**

Depth m	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
		Ca dS/m	Mg	K	Na Cmol	Acidity (+)/kg			
0 - 0.1	5.2A	0.025A	2.1J	0.9	0.3	0.1	5.6F		1.79
0.1 - 0.3	5.1A	0.026A	2J	1.1	0.24	0.2	6.4F		3.13
0.3 - 0.6	5.4A	0.033A	0.6J	2.3	0.19	0.6	10F		6.00
0.6 - 0.8	5.2A	0.063A	0.1J	5.4	0.38	2.3	18.9F		12.17
0.8 - 1	5.2A	0.064A	0.1J	4.8	0.3	2.3	16.3F		14.11
1 - 1.4	5.1A	0.109A	0.1J	6.1	0.34	3.1	15.8F		19.62
1.4 - 2	5.4A	0.088A	0.1J	10.7	0.5	5	20.1F		24.88

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
		C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		

0 - 0.1  
0.1 - 0.3  
0.3 - 0.6  
0.6 - 0.8  
0.8 - 1  
1 - 1.4  
1.4 - 2

Depth	COLE	Gravimetric/Volumetric Water Contents							K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m		g/g - m3/m3							mm/h	mm/h

0 - 0.1  
0.1 - 0.3  
0.3 - 0.6  
0.6 - 0.8  
0.8 - 1  
1 - 1.4  
1.4 - 2

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**Laboratory Analyses Completed for this profile**

15F1_CA	Exchangeable bases by 0.01M silver-thiourea (AgTU)+, no pretreatment for soluble salts
15F1_CEC	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F1_K	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F1_MG	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F1_NA	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F2_AL	Extractable Al(%) - Silver Thiorea
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension