

**Project Name:** LOC  
**Project Code:** LOC      **Site ID:** B934      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

**Site Information**

<b>Desc. By:</b>	K.J. Smith	<b>Locality:</b>	Road off to left at Mt Berryman Road.
<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>	152.378333333333	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	-27.716666666667	<b>Drainage:</b>	Moderately well 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>	Shale

**Land Form**

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	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>	28.6 %	<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>	Gn3.73
		<b>Great Soil Group:</b>	Grey clay

**Site Disturbance:** Complete clearing. Pasture, native or improved, but never cultivated

**Vegetation:**

Tall Strata - Tree, 3.01-6m, Mid-dense. \*Species includes - Acacia harpophylla

**Surface Coarse Fragments:** 20-50%, bouldery, 600mm-2m, subrounded platy, Sandstone

**Profile Morphology**

A11	0 - 0.05 m	Dark brown (10YR3/3-Moist); ; Sandy clay loam; Weak grade of structure, 5-10 mm, Subangular blocky; Strong grade of structure, <2 mm, Granular; Moderately moist; Very weak consistence; Field pH 5.8 (pH meter); ManyClear change to -
A12	0.05 - 0.15 m	Very dark brown (10YR2/2-Moist); ; Light clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Moderately moist; Very weak consistence; 2-10%, Sandstone, coarse fragments; Field pH 6 (pH meter); CommonClear change to -
B21	0.15 - 0.27 m	Yellowish brown (10YR5/4-Moist); ; Medium clay; Strong grade of structure, 2-5 mm, Subangular blocky; Moist; Firm consistence; Field pH 7 (pH meter); FewClear change to -
B22	0.27 - 0.4 m	Yellowish brown (10YR5/6-Moist); ; Medium clay; Strong grade of structure, 2-5 mm, Subangular blocky; Moist; Firm consistence; Field pH 8.5 (pH meter); FewGradual change to -
BC	0.4 - 0.5 m	Light yellowish brown (2.5Y6/4-Moist); ; Light medium clay; 10-20%, Shale, coarse fragments; Field pH 8.5 (pH meter); Gradual change to -
C	0.5 - 0.6 m	; Field pH 8.3 (pH meter);

**Morphological Notes**

C Blue grey shale and thin sandstone layers.

**Observation Notes**

WAS LV183:

**Site Notes**

LOCKYER

**Observation ID: 1**

**Laboratory Test Results:**

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity		%
0 - 0.05	6.1A	0.089A	12.5J	4.9	1.13	0.1		19.4F	0.52
0.05 - 0.15	6.4A	0.037A	9.7J	6.8	0.55	0.2		17.8F	1.12
0.15 - 0.27	6.8A	0.04A	19.2J	14.8	0.64	0.5		35.6F	1.40
0.27 - 0.4	8.3A	0.115A	21.5J	14.8	0.62	0.4		36.1F	1.11
0.4 - 0.5	8.7A	0.095A	14.9J	11.5	0.81	0.3		26.4F	1.14

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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