**Project Name:** LOC
**Project Code:** LOC **Site ID:** B964 **Observation ID:** 1
**Agency Name:** CSIRO Division of Soils (QLD)

## Site Information

**Desc. By:** K.J. Smith
**Date Desc.:** //
**Map Ref.:** Sheet No. : 9342 1:100000
**Northing/Long.:** 152.388888888889
**Easting/Lat.:** -27.7794444444445
**Locality:**
**Elevation:** No Data
**Rainfall:** 0
**Runoff:** No Data
**Drainage:** Moderately well drained

## Geology

**ExposureType:** No Data
**Geol. Ref.:** No Data
**Conf. Sub. is Parent. Mat.:** No Data
**Substrate Material:** No Data

## Land Form

**Rel/Slope Class:** No Data
**Morph. Type:** No Data
**Elem. Type:** No Data
**Slope:** 4.4 %
**Pattern Type:** Alluvial plain
**Relief:** No Data
**Slope Category:** No Data
**Aspect:** No Data

## Surface Soil Condition (dry):

## Erosion:

## Soil Classification

**Australian Soil Classification:**
N/A
**ASC Confidence:**
Confidence level not specified
**Mapping Unit:** N/A
**Principal Profile Form:** Ug5.16
**Great Soil Group:** Black earth

**Site Disturbance:** Cultivation. Rainfed

## Vegetation:

## Surface Coarse Fragments:

## Profile Morphology

| | | |
|---|---|---|
| A11 | 0 - 0.01 m | Very dark grey (10YR3/1-Moist); ; Light medium clay; Strong grade of structure, <2 mm, Granular; Moist; Firm consistence; 10-20%, Basalt, coarse fragments; Field pH 7 (pH meter); Abrupt change to - |
| B1 | 0.01 - 0.3 m | Very dark grey (10YR3/1-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Subangular blocky; Wet; Slightly plastic; 2-10%, Basalt, coarse fragments; Field pH 7.5 (pH meter); |
| B1 | 0.3 - 1.2 m | Very dark grey (10YR3/1-Moist); ; Heavy clay; Strong grade of structure, 2-5 mm, Subangular blocky; Wet; Slightly plastic; 2-10%, Basalt, coarse fragments; Field pH 8.7 (pH meter); Diffuse change to - |
| B2 | 1.2 - 1.6 m | Very dark greyish brown (10YR3/2-Moist); ; Heavy clay; Strong grade of structure, Subangular blocky; Moderately moist; Very firm consistence; Field pH 8.7 (pH meter); |

## Morphological Notes

## Observation Notes

WAS LV315:

## Site Notes

LCKYER

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## Laboratory Test Results:

| Depth | pH | 1:5 EC | Exchangeable Cations | | | | Exchangeable | CEC | ECEC | ESP |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Ca | Mg | K | Na | Acidity | | | |
| m | | dS/m | Cmol (+)/kg | | | | | | | % |
| 0 - 0.01 | 5.9A | 0.484A | 17.9J | 15.9 | 2.65 | 1.2 | | 32F | | 3.75 |
| 0.01 - 0.3 | 8A | 0.48A | 28.9J | 28.8 | 0.94 | 8.2 | | 51.2F | | 16.02 |
| 0.3 - 1.2 | 8.4A | 1.59A | 45J | 32.4 | 0.55 | 16.5 | | 40.4F | | 40.84 |
| 1.2 - 1.6 | 8.8A | 1.16A | 35J | 37.4 | 0.52 | 19.3 | | 51.9F | | 37.19 |

| Depth | CaCO3 | Organic C | Avail. P | Total P | Total N | Total K | Bulk Density | Particle Size Analysis GV | CS | FS | Silt | Clay |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| m | % | % | mg/kg | % | % | % | Mg/m3 | | | % | | |
| 0 - 0.01 | | | | | | | | | | | | |
| 0.01 - 0.3 | | | | | | | | | | | | |
| 0.3 - 1.2 | | | | | | | | | | | | |
| 1.2 - 1.6 | | | | | | | | | | | | |

| 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 - 0.01 | | | | | | | | | |
| 0.01 - 0.3 | | | | | | | | | |
| 0.3 - 1.2 | | | | | | | | | |
| 1.2 - 1.6 | | | | | | | | | |

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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 |