

Project Name: NC
Project Code: NC **Site ID:** C452 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By: P.H. Walker **Locality:** Willarwarrin:Armidale Road crossing of Mungay Creek: east side of cutting
Date Desc.: 05/12/60 **Elevation:** 60 metres
Map Ref.: Sheet No. : 9436 1:100000 **Rainfall:** 1200
Northing/Long.: 152.625 **Runoff:** Slow
Easting/Lat.: -30.9333333333333 **Drainage:** Imperfectly drained

Geology

Exposure Type: Existing vertical exposure **Conf. Sub. is Parent. Mat.:** No Data
Geol. Ref.: No Data **Substrate Material:** Porous, Unconsolidated material (unidentified)

Land Form

Rel/Slope Class: Undulating rises 9-30m 3-10% **Pattern Type:** Terrace (alluvial)
Morph. Type: Simple-slope **Relief:** No Data
Elem. Type: Bench **Slope Category:** Very gently sloped
Slope: 1 % **Aspect:** 90 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification: Mottled Mesotrophic Brown Dermosol **Mapping Unit:** N/A
ASC Confidence: No analytical data are available but confidence is fair. **Principal Profile Form:** N/A
Great Soil Group: Yellow podzolic soil

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

Vegetation:

Mid Strata - Heath shrub, , Isolated clumps. *Species includes - Lantana camara
Tall Strata - Tree, , Mid-dense. *Species includes - Eucalyptus species

Surface Coarse Fragments:

Profile Morphology

| | |
|---------------|--|
| 0 - 0.05 m | Greyish brown (10YR5/2-Moist); , 5YR32, 20-50% ; , 20-50% ; Clay loam; Massive grade of structure; Firm consistence; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Field pH 6 (pH meter); Many |
| 0.05 - 0.17 m | Grey (10YR6/1-Moist); , 7.5YR32, 20-50% ; , 20-50% ; Clay loam (Heavy); Massive grade of structure; Firm consistence; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Field pH 6 (pH meter); Many |
| 0.17 - 0.33 m | Grey (2.5Y5/1-Moist); , 5YR32, 20-50% ; , 20-50% ; Light clay (Light); Massive grade of structure; Firm consistence; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Field pH 6.1 (pH meter); Many |
| 0.33 - 0.56 m | Grey (10YR5/1-Moist); , 5YR32, 20-50% ; , 20-50% ; Light clay; Massive grade of structure; Weak consistence; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Field pH 6 (pH meter); Many |
| 0.69 - 0.99 m | White (10YR8/2-Moist); , 10YR68, 20-50% ; , 5YR54, 20-50% ; Light clay; Moderate grade of structure, 10-20 mm, Angular blocky; Very firm consistence; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 5.5 (pH meter); Common |
| 1.14 - 1.37 m | Yellowish brown (10YR5/8-Moist); , 10YR51, 2-10% ; , 2-10% ; Light clay; Moderate grade of structure, 10-20 mm, Angular blocky; Firm consistence; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 5.6 (pH meter); Common |
| 1.83 - 1.98 m | Reddish yellow (7.5YR6/8-Moist); , 10R48, 2-10% ; , 5Y62, 2-10% ; Light clay; Massive grade of structure; Firm consistence; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 5.2 (pH meter); Common |

Morphological Notes

Observation Notes

ALLUVIUM:38CM K0 OVERLIE DISCARDED:K3 SOIL:

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KEMPSEY

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Laboratory Test Results:

| Depth | pH | 1:5 EC | Exchangeable Cations | | | | CEC | ECEC | ESP |
|-------------|------|--------|----------------------|-----|------|------|----------------------|------|------|
| m | | dS/m | Ca | Mg | K | Na | Exchangeable Acidity | | % |
| | | | | | | | (+)/kg | | |
| 0 - 0.05 | 6A | 0.039A | 4.9K | 4.3 | 0.32 | 0.36 | | 18J | 2.00 |
| 0.05 - 0.17 | 6A | 0.039A | | | | | | | |
| 0.17 - 0.33 | 6.1A | 0.03A | | | | | | | |
| 0.33 - 0.56 | 6A | 0.027A | | | | | | | |
| 0.69 - 0.99 | 5.5A | 0.048A | | | | | | | |
| 1.14 - 1.37 | 5.6A | 0.065A | | | | | | | |
| 1.83 - 1.98 | 5.2A | 0.101A | | | | | | | |

[illegible][illegible]

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Laboratory Analyses Completed for this profile

| | |
|-----------|--|
| 15_NR_CA | Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded |
| 15_NR_CEC | CEC - 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 |
| 2_LOI | Loss on Ignition (%) |
| 2A1 | Air-dry moisture content |
| 3A1 | EC of 1:5 soil/water extract |
| 4A1 | pH of 1:5 soil/water suspension |
| 5A2 | Chloride - 1:5 soil/water extract, automated colour |
| 6_DC | Organic carbon (%) - Dry combustion |
| 7_NR | Total nitrogen (%) - Not recorded |
| P10_PB_C | Clay (%) - Plummet balance |
| P10_PB_CS | Coarse sand (%) - Plummet balance |
| P10_PB_FS | Fine sand (%) - Plummet balance |
| P10_PB_Z | Silt (%) - Plummet balance |