

**Project Name:** Soil Studies in the Lower Namoi Valley  
**Project Code:** EDGEROI **Site ID:** ed128 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

#### Site Information

|                        |                            |                   |                      |
|------------------------|----------------------------|-------------------|----------------------|
| <b>Desc. By:</b>       | D. McGarry                 | <b>Locality:</b>  | Auscott Ltd, Auscott |
| <b>Date Desc.:</b>     | 08/05/85                   | <b>Elevation:</b> | 201 metres           |
| <b>Map Ref.:</b>       | Sheet No. : 8837_N 1:50000 | <b>Rainfall:</b>  | No Data              |
| <b>Northing/Long.:</b> | 6660900 AMG zone: 55       | <b>Runoff:</b>    | No Data              |
| <b>Easting/Lat.:</b>   | 753900 Datum: AGD66        | <b>Drainage:</b>  | No Data              |

#### Geology

|                      |                       |                                    |         |
|----------------------|-----------------------|------------------------------------|---------|
| <b>ExposureType:</b> | Undisturbed soil core | <b>Conf. Sub. is Parent. Mat.:</b> | No Data |
| <b>Geol. Ref.:</b>   | No Data               | <b>Substrate Material:</b>         | No Data |

#### Land Form

|                         |              |                        |         |
|-------------------------|--------------|------------------------|---------|
| <b>Rel/Slope Class:</b> | No Data      | <b>Pattern Type:</b>   | No Data |
| <b>Morph. Type:</b>     | No Data      | <b>Relief:</b>         | No Data |
| <b>Elem. Type:</b>      | Terrace flat | <b>Slope Category:</b> | Level   |
| <b>Slope:</b>           | 0 %          | <b>Aspect:</b>         | No Data |

**Surface Soil Condition (dry):** Self-mulching, Recently cultivated

#### 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> | Ug5.15    |
|  |                                | <b>Great Soil Group:</b>       | Grey clay |

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

#### Vegetation:

#### Surface Coarse Fragments:

#### Profile Morphology

|      |               |   |
|------|---------------|---|
| A11p | 0 - 0.1 m     | Very dark greyish brown (10YR3/2-Moist); Very dark greyish brown (10YR3/2-Dry); ; Medium clay; Weak grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; Field pH 7.3 (pH meter); Few, fine (1-2mm) roots;  |
| A12p | 0.1 - 0.3 m   | Very dark greyish brown (10YR3/2-Moist); ; Medium heavy clay; Weak grade of structure, 20-50 mm, Angular blocky; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 7.7 (pH meter); Few, fine (1-2mm) roots;  |
| A13  | 0.3 - 0.64 m  | Very dark greyish brown (10YR3/2-Moist); ; Heavy clay; Weak grade of structure, 20-50 mm, Angular blocky; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; Field pH 8.3 (pH meter); Few, very fine (0-1mm) roots; Clear, Wavy change to -  |
| A14  | 0.64 - 1 m    | Very dark greyish brown (10YR3/2-Moist); ; Medium clay; Moderate grade of structure, 10-20 mm, Lenticular; Moderate grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 9.3 (pH meter); Few, very fine (0-1mm) roots; |
| A15  | 1 - 1.36 m    | Very dark greyish brown (10YR3/2-Moist); ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Lenticular; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; Field pH 9.3 (pH meter); Gradual, Smooth change to -  |
| B2   | 1.36 - 2.62 m | Brown (7.5YR4/4-Moist); ; Medium clay; Moderate grade of structure, 10-20 mm, Lenticular; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; Very few (0 - 2 %), Calcareous, Very coarse (20 - 60 mm), Nodules; Field pH 9.3 (pH meter);                                      |

#### Morphological Notes

A11p Very few infilled cracks in the upper B2. Very little carbonate, even at depth. Well-structured B horizon.

#### Observation Notes

Parent Rock: alluvial sediment, clay, parna on fourth fan, Namoi

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**Site Notes**

Crackspace 500.



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**Laboratory Analyses Completed for this profile**

|          |  |
|----------|--|
| 15A2_CA  | Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts |
| 15A2_K   | Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts   |
| 15A2_MG  | Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts   |
| 15A2_NA  | Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts   |
| 19B1     | Carbonates - manometric  |
| 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  |
| 6B3      | Total organic carbon - high frequency induction furnace, infrared  |
| 7B1      | Water soluble nitrate - automated colour   |
| 9B1      | Bicarbonate-extractable phosphorus - manual colour   |
| P10_CF_C | Clay (%) - Coventry and Fett pipette method  |
| P10_CF_Z | Silt (%) - Coventry and Fett pipette method  |