Project Name: Hunter Valley Soil Survey

Project Code: Site ID: **CP369** Observation ID: 1

Agency Name: **CSIRO Division of Soils (ACT)**

Site Information

C.J. Chartres Locality: Mountain View/Hebden.

Desc. By: Date Desc.: Elevation: No Data 06/04/93 Sheet No.: 9133 1:100000 Map Ref.: Rainfall: No Data Northing/Long.: 151.04305556 Runoff: No Data Easting/Lat.: -32.34388889 Drainage: No Data

Geology

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

Land Form

Rel/Slope Class: Steep hills 90-300m 32-56% Pattern Type: Alluvial plain Morph. Type: Elem. Type: Flat Relief: 100 metres No Data **Slope Category:** Level No Data Slope: 0 % Aspect:

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Brown Dermosol Principal Profile Form: N/A **ASC Confidence: Great Soil Group:** Prairie soil

Confidence level not specified

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

| Ap | 0 - 0.1 m | Brown (10YR4/3-Dry); ; Fine sandy loam; Common, medium (2-5mm) roots; Gradual, Smooth change to - |
|-----|--------------|--|
| A12 | 0.1 - 0.2 m | Brown (10YR4/3-Moist); ; Fine sandy loam; Few, medium (2-5mm) roots; Clear, Smooth change to - |
| 2A | 0.2 - 0.29 m | Dark brown (10YR3/3-Moist); ; Sandy clay loam, fine sandy (Light); Few, very fine (0-1mm) roots; Abrupt, Smooth change to - |
| 2A2 | 0.29 - 0.7 m | Dark yellowish brown (10YR4/4-Dry); ; Sandy clay loam, fine sandy (Heavy); Few, very fine (0-1mm) roots; Clear, Smooth change to - |
| 2B | 0.7 - 1 m | Very dark grey (10YR3/1-Moist); , 7.5YR46, 0-2% , 0-5mm, Faint; Light medium clay; Few, very fine (0-1mm) roots; |

Morphological Notes

Observation Notes

Site Notes

20 metres from creek. Possibly older terrace. Cropped in past, grass and weeds present.

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Laboratory Test Results:

| <u>Laboratory Test Results:</u> | | | | | | | | | | | |
|---------------------------------|-------|---------|----------|-----------------|------------------------|--------------------|----------------------|-----|-------------|-----------|--|
| Depth | рН | 1:5 EC | | hangeable Mg | Cations K | Na | Exchangeable Acidity | CEC | ECEC | ESP | |
| m | | dS/m | | Ū | | Cmol (- | +)/kg | | | % | |
| | | | | | | | | | | | |
| 0 - 0.1 | 4.7D | 0.043A | | 1.15 | 0.51 | 0.26 | | | 8.290 | | |
| 0.1 - 0.2 | 4.8D | 0.045A | | 1.34 | 0.25 | 0.16 | | | 9.860 | | |
| 0.2 - 0.3 | 5.28D | | 11.01H | 1.54 | 0.17 | 0.26 | | | 13.04 | | |
| 0.3 - 0.4 | 5.58D | 0.062A | | 1.5 | 0.15 | 0.24 | | | 11.99 | | |
| 0.5 - 0.7 | 6.1D | 0.027A | | 2.17 | 0.19 | 0.25 | | | 15.25 | | |
| 0.8 - 1 | 6.5D | 0.036A | 19.65H | 4.31 | 0.4 | 0.36 | | | 24.72 | D | |
| | | | | | | | | | | | |
| Depth | CaCO3 | Organic | Avail. | Total | Total | Tota | ıl Bulk | Pa | rticle Size | Analysis | |
| | | C | Р | Р | N | K | Density | G۷ | CS FS | Silt Clay | |
| m | % | % | mg/kg | % | % | % | Mg/m3 | | % | | |
| | | | | | | | | | | | |
| 0 - 0.1 | | 1.91A | 13J | | | | | | | | |
| 0.1 - 0.2 | | | | | | | | | | | |
| 0.2 - 0.3 | | | | | | | | | | | |
| 0.3 - 0.4 0.5 - 0.7 | | | | | | | | | | | |
| 0.5 - 0.7 0.8 - 1 | | | | | | | | | | | |
| 0.6 - 1 | | | | | | | | | | | |
| Danish | 001.5 | | 0 | | . I | V-4 O | -44- | | W | V | |
| Depth | COLE | Sat. | 0.05 Bar | o.1 Bar | olumetric V 0.5 Bar | vater Col 1 Bar | ntents 5 Bar 15 I | Rar | K sat | K unsat | |
| m | | Jai. | 0.03 Bai | | g - m3/m | | 3 Bai 13 i | Dai | mm/h | mm/h | |
| | | | | J | • | | | | | | |
| 0 - 0.1 | | | | | | | | | | | |
| 0.1 - 0.2 | | | | | | | | | | | |
| 0.2 - 0.3 | | | | | | | | | | | |
| 0.3 - 0.4 | | | | | | | | | | | |
| 0.5 - 0.7 | | | | | | | | | | | |
| 0.8 - 1 | | | | | | | | | | | |
| | | | | | | | | | | | |

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Laboratory Analyses Completed for this profile

15_NR_AL Exchangeable aluminium - method not recorded

15E1_CA 15E1_K 15E1_MG 15E1_NA Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts

15J_BASES Sum of Bases

3A1 EC of 1:5 soil/water extract

pH of 1:5 soil/1M potassium chloride extract - direct Organic carbon - Walkley and Black 4C1

6A1

9B1 Bicarbonate-extractable phosphorus - manual colour