Project Name: Hunter Valley Soil Survey

Project Code: HV Site ID: CP381 Observation ID: 1

Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By: Date Desc.: C.J. Chartres Locality: Belford. Elevation: 07/04/93 No Data Map Ref.: Sheet No.: 9132 1:100000 Rainfall: No Data Northing/Long.: 151.27805556 Runoff: No Data Easting/Lat.: -32.60611111 Drainage: No Data

Geology

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

Land Form

Rel/Slope Class: Gently undulating plains <9m 1- Pattern Type: Alluvial plain

3%

Morph. Type: Flat Relief: 5 metres

Elem. Type: Levee Slope Category: Very gently sloped Slope: 2 % Aspect: 180 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/AOrthic TenosolPrincipal Profile Form:N/AASC Confidence:Great Soil Group:Alluvial soil

Confidence level not specified

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A11 0 - 0.1 m Dark brown (10YR3/3-Moist); ; Loamy sand; Many, fine (1-2mm) roots; Gradual change to A12 0.1 - 0.5 m Dark brown (10YR3/3-Moist); ; Loamy sand; Common, fine (1-2mm) roots; Gradual change to A12 0.5 - 0.8 m Dark yellowish brown (10YR3/4-Moist); ; Fine sandy loam; Common, fine (1-2mm) roots; Clear change to A12 0.8 - 1 m Very dark brown (10YR2/2-Moist); ; Fine sandy clay loam; Few, very fine (0-1mm) roots;

Morphological Notes

Observation Notes

Site Notes

Pasture on Landen farm. 20 metres other side of fence from CP380. Grazed oats.

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Laboratory Test Results:

| Laboratory Test Results. | | | | | | | | | | | | |
|---|--|-------------------|----------------------|--------------------------------------|--------------------------------------|--------------------------------------|----------------------------|----------|--------------|---|----------------|------------|
| Depth | рН | 1:5 EC | Exchangeable | | Cations K | Na | Exchangeable Acidity | CEC | | ECEC | | ESP |
| m | | dS/m | Ca i | vig | N. | Cmol (| • | | | | | % |
| 0 - 0.1 0.1 - 0.2 0.2 - 0.4 0.5 - 0.7 0.8 - 1 | 6.1D 6.32D 6.12D 6.22D 6.35D | | 8.31H | 4.62 5.12 4.79 5.89 8.92 | 0.11 0.05 0.04 0.08 0.15 | 0.44 0.77 0.75 0.99 1.68 | | | 1 | 12.53[14.27[13.59[18.3D 34.29[|) | |
| Depth m | CaCO3 | Organic C % | Avail. P mg/kg | Total P % | Total N % | Tota K % | l Bulk Density Mg/m3 | Pa GV | rticle CS | Size FS % | Analys Silt | is Clay |
| 0 - 0.1 0.1 - 0.2 0.2 - 0.4 0.5 - 0.7 0.8 - 1 | | 0.76A | 6J | | | | | | | | | |
| Depth m 0 - 0.1 | COLE | Sat. | Grav 0.05 Bar | 0.1 Bar | olumetric V 0.5 Bar /g - m3/m | 1 Bar | | Bar | K s | | K uns | |

^{0 - 0.1} 0.1 - 0.2 0.2 - 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