

**Project Name:** Hunter Valley Soil Survey  
**Project Code:** HV **Site ID:** CP350 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (ACT)

**Site Information**

<b>Desc. By:</b>	C.J. Chartres	<b>Locality:</b>	Cumbria, part of Rossgole.
<b>Date Desc.:</b>	04/04/93	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	Sheet No. : 9033 1:100000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	150.80388889	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	-32.13694444	<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>	Flood plain
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Valley flat	<b>Slope Category:</b>	Level
<b>Slope:</b>	1 %	<b>Aspect:</b>	90 degrees

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Red Chromosol		<b>Principal Profile Form:</b>	N/A
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Red-brown earth
Confidence level not specified			

**Site Disturbance:**

**Vegetation:**

**Surface Coarse Fragments:**

**Profile Morphology**

0 - 0.1 m	Dark brown (10YR3/3-Dry); ; Sandy clay loam (Heavy); 2-10%, fine gravelly, 2-6mm, subrounded, Basalt, coarse fragments; Common, fine (1-2mm) roots; Clear, Smooth change to -
0.1 - 0.4 m	Dark brown (7.5YR3/2-Dry); ; Medium clay; 0-2%, fine gravelly, 2-6mm, subrounded, Basalt, coarse fragments; Common, fine (1-2mm) roots; Gradual, Smooth change to -
0.4 - 0.7 m	Brown (7.5YR4/4-Dry); ; Medium heavy clay; 2-10%, medium gravelly, 6-20mm, subrounded, Basalt, coarse fragments; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Soft segregations; Few, fine (1-2mm) roots; Diffuse, Irregular change to -
0.7 - 1 m	Dark yellowish brown (10YR4/4-Moist); , 10YR32, 10-20% , 5-15mm, Distinct; Medium clay; 2-10%, medium gravelly, 6-20mm, subrounded, Basalt, coarse fragments; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Soft segregations; Few, very fine (0-1mm) roots;

**Morphological Notes**

Coarse fragments = mixed Basalt/Quartz. Carbonate from 30cm in 2 cores could be rock fragments.  
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**Observation Notes**

Soil type: possible brown duplex soil. Mixed lithology Basalt/Quartz.

**Site Notes**

Pasture- predominantly tall spear-like grass, with scattered tall trees. Dartbrook Land system.

**Observation ID: 1**

[illegible]

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**Laboratory Analyses Completed for this profile**

15_NR_AL	Exchangeable aluminium - method not recorded
15E1_CA	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) by compulsive exchange, no pretreatment for soluble
15E1_K	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_NA	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
4C1	pH of 1:5 soil/1M potassium chloride extract - direct
6A1	Organic carbon - Walkley and Black
9B1	Bicarbonate-extractable phosphorus - manual colour