

**Project Name:** Hunter Valley Soil Survey  
**Project Code:** HV **Site ID:** CP364 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (ACT)

**Site Information**

<b>Desc. By:</b>	C.J. Chartres	<b>Locality:</b>	Muswellbrook.
<b>Date Desc.:</b>	06/04/93	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	Sheet No. : 9033 1:100000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	150.86888889	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	-32.31388889	<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>	Low hills
<b>Morph. Type:</b>	Lower-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	Very gently sloped
<b>Slope:</b>	3 %	<b>Aspect:</b>	180 degrees

**Surface Soil Condition (dry):**

**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>	N/A
		<b>Great Soil Group:</b>	Solodic soil

**Site Disturbance:**

**Vegetation:**

**Surface Coarse Fragments:**

**Profile Morphology**

A1	0 - 0.12 m	Yellowish brown (10YR5/4-Dry); ; Silty loam; Field pH 7 (Raupach); Abundant, fine (1-2mm) roots; Gradual, Smooth change to -
A2	0.12 - 0.2 m	Very pale brown (10YR7/4-Dry); ; Silty loam; Field pH 4.5 (Raupach); Many, very fine (0-1mm) roots; Abrupt, Smooth change to -
B21	0.2 - 0.4 m	Brown (7.5YR4/4-Dry); ; Medium clay; Common, very fine (0-1mm) roots; Gradual, Smooth change to -
B22	0.4 - 1 m	Yellowish red (5YR4/6-Moist); ; Light medium clay; 0-2%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments; Few (2 - 10 %), Manganiferous, , Soft segregations; Soil matrix is Slightly calcareous; Few, very fine (0-1mm) roots;

**Morphological Notes**

B22 Very hard.

**Observation Notes**

Red duplex soil.

**Site Notes**

Approximately in drainage line. Tall pasture.

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[illegible]

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**Laboratory Analyses Completed for this profile**

15_NR_AL	Exchangeable aluminium - method not recorded
15E1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) 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