Project Name: Hunter Valley Soil Survey

Project Code: HV Site ID: CP347 Observation ID: 1

Agency Name: CSIRO Division of Soils (ACT)

Site Information

East Rossgole. Desc. By: C.J. Chartres Locality: Date Desc.: Elevation: 04/04/93 No Data Sheet No.: 9033 Map Ref.: 1:100000 Rainfall: No Data Northing/Long.: 150.76194444 Runoff: No Data Easting/Lat.: -32.135 Drainage: No Data

<u>Geology</u>

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

**Land Form** 

Rel/Slope Class:No DataPattern Type:PlateauMorph. Type:RidgeRelief:No DataElem. Type:Summit surfaceSlope Category:LevelSlope:1 %Aspect:No Data

Surface Soil Condition (dry):

**Erosion:** 

**Soil Classification** 

Australian Soil Classification:Mapping Unit:N/ABlack VertosolPrincipal Profile Form:N/AASC Confidence:Great Soil Group:Black earth

Confidence level not specified

Site Disturbance:

Vegetation:

**Surface Coarse Fragments:** 

**Profile Morphology** 

A11 0 - 0.1 m Dark reddish brown (5YR3/3-Dry); ; Light medium clay; Very firm consistence; 0-2%, medium gravelly, 6-20mm, coarse fragments; Many, fine (1-2mm) roots; Clear, Irregular change to 
A12 0.1 - 0.2 m Dark brown (7.5YR3/2-Dry); ; Light clay; Very firm consistence; 2-10%, medium gravelly, 6-20mm, coarse fragments; Common, fine (1-2mm) roots; Sharp, Irregular change to 
B2 0.2 - 0.4 m Dark reddish brown (5YR3/2-Dry); ; Medium clay; Firm consistence; 10-20%, coarse gravelly, 20-60mm, subangular, Basalt, coarse fragments; Common, very fine (0-1mm) roots; Gradual, Wavy change to -

C 0.4 - 0.7 m ; Medium clay; 10-20%, coarse gravelly, 20-60mm, coarse fragments;

**Morphological Notes** 

A12 very pedal.

C weathered rock/gravelly, little clay matrix.

**Observation Notes** 

Soil type: Black earth/Chocolate intergrade. GSG also noted as C (Chocolate soil).

**Site Notes** 

Rossgole land system. M.Tumbull - (Guy Thomas). Pasture with some lucerne. Scattered trees. South of main home, approximately 600 metres from large barn.

Project Name: Project Code: Agency Name:

Hunter Valley Soil Survey
HV Site ID: CP:
CSIRO Division of Soils (ACT) **CP347** Observation ID: 1

## **Laboratory Test Results:**

Depth pH		1:5 EC	Exchangeable Cations				Exchangeable			ECEC		ESP	
Бериі	pi.			Mg	K	Na	Acidity	CEC		_0_0		_0.	
m		dS/m		_		Cmol (	+)/kg					%	
0 - 0.1 0.1 - 0.2 0.2 - 0.4 0.5 - 0.7	5.2D 5.8D 6.18D 6.42D	0.056A 0.051A	33.93H 23.46H 21.84H 25.39H	9.9 9.52 11.47 12.45	0.51 0.11 0.07 0.05	0.73 0.48 0.36 0.5			3 3	5.35E 3.63E 3.75E 38.4D	)		
Depth m	CaCO3	Organic C %	Avail. P mg/kg	Total P %	Total N %	Tota K %	al Bulk Density Mg/m3	Pa GV	rticle CS	Size FS %	Analysi Silt	s Clay	
0 - 0.1 0.1 - 0.2 0.2 - 0.4 0.5 - 0.7		3.23A	10J										
Depth	COLE	Sat.	Gravimetric/Volumetric Water Contents  0.05 Bar					Bar	K sat		K unsa	ıt	
m		Jai.	0.03 Bai	g/g - m3/m3					mm/h		mm/h		

<sup>0 - 0.1</sup> 0.1 - 0.2 0.2 - 0.4 0.5 - 0.7

**Project Name: Hunter Valley Soil Survey** 

**Project Code:** Н۷ Site ID: **CP347** Observation ID: 1

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

## **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