Project Name: Hunter Valley Soil Survey

Project Code: HV Site ID: CP358 Observation ID: 1

Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By: C.J. Chartres Locality: Roxburgh. Date Desc.: Elevation: No Data 05/04/93 Sheet No.: 9033 Map Ref.: 1:100000 Rainfall: No Data Northing/Long.: 150.78805556 Runoff: No Data Easting/Lat.: -32.31805556 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:No DataPattern Type:Alluvial plainMorph. Type:FlatRelief:No DataElem. Type:Terrace plainSlope Category:LevelSlope:0 %Aspect:No Data

Surface Soil Condition (dry):

**Erosion:** 

**Soil Classification** 

Australian Soil Classification:Mapping Unit:N/ABlack DermosolPrincipal Profile Form:N/AASC Confidence:Great Soil Group:Prairie soil

Confidence level not specified

Site Disturbance:

Vegetation:

**Surface Coarse Fragments:** 

**Profile Morphology** 

A11 0 - 0.1 m Very dark greyish brown (10YR3/2-Moist); ; Clay loam; Common, very fine (0-1mm) roots;

Gradual change to -

A12 0.1 - 0.28 m Black (10YR2/1-Moist); ; Clay loam (Heavy); Common, very fine (0-1mm) roots; Sharp change to

-

BC 0.28 - 0.7 m Black (10YR2/1-Moist); ; Light clay; Common, very fine (0-1mm) roots; Abrupt change to -

2 0.7 - 1 m Brown (10YR4/3-Moist); ; Clay loam, fine sandy;

**Morphological Notes** 

A12 Very organic to depth.

BC Cambric B, uncertain BC horizon.

Observation Notes

Soil type: possible prairie soil?

**Site Notes** 

River terrace site. Irrigated lucerne pasture.

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## **Laboratory Test Results:**

<u>Laboratory</u>	1030100							050	505	
Depth	pН	1:5 EC		hangeable Mg	K Cations	Na I	Exchangeable Acidity	CEC	ECE	C ESP
m		dS/m	Ou .	mg	· ·	Cmol (+				%
0 - 0.1 0.1 - 0.2 0.2 - 0.4 0.5 - 0.7 0.8 - 1	6.11D 6.15D 6.45D 7D 7.1D	0.092A 0.067A 0.105A	18.54H 19.48H 18.86H 22.32H 17.24H	7.86 8.67 9.37 13.74 10.91	1.78 0.79 0.12 0.55 0.22	0.55 0.73 0.61 1.09 1.08			28.76 29.71 28.97 37.71 29.46	D D D
Depth	CaCO3	Organic	Avail.	Total	Total	Total			rticle Size	•
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	CS FS %	Silt Clay
0 - 0.1 0.1 - 0.2 0.2 - 0.4 0.5 - 0.7 0.8 - 1		2.28A	50J							
Depth	COLE		Grav	/imetric/Vo	olumetric V	Vater Con	tents		K sat	K unsat
m		Sat.	0.05 Bar	0.1 Bar g/	0.5 Bar /g - m3/m	1 Bar 3	5 Bar 15	Bar	mm/h	mm/h
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