Project Name: **Hunter Valley Soil Survey**
Project Code: **HV** **Site ID:** **CP386** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (ACT)**

Site Information

Desc. By:	C.J. Chartres	**Locality:**	Keinbah.
Date Desc.:	08/04/93	**Elevation:**	No Data
Map Ref.:	Sheet No. : 9132 1:100000	**Rainfall:**	No Data
Northing/Long.:	151.395	**Runoff:**	No Data
Easting/Lat.:	-32.75305556	**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 Data	**Pattern Type:**	No Data
Morph. Type:	No Data	**Relief:**	No Data
Elem. Type:	No Data	**Slope Category:**	No Data
Slope:	3 %	**Aspect:**	90 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Red Vertosol
ASC Confidence:
Confidence level not specified

Mapping Unit: N/A
Principal Profile Form: N/A
Great Soil Group: Red clay

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.1 m	Reddish brown (5YR4/4-Moist); ; Light clay; Field pH 4 (Raupach); Many, fine (1-2mm) roots; Gradual, Smooth change to -
A12	0.1 - 0.2 m	Dark reddish brown (5YR3/4-Moist); ; Light medium clay; Field pH 5 (Raupach); Common, very fine (0-1mm) roots; Clear, Smooth change to -
B2	0.2 - 0.5 m	Red (2.5YR4/6-Moist); , 10YR64, 0-2% , 0-5mm, Faint; Medium clay; Few, very fine (0-1mm) roots; Diffuse, Wavy change to -
BC	0.5 - 1 m	Olive yellow (2.5Y6/6-Moist); , 10YR56, 10-20% , 0-5mm, Faint; , 10YR31; Clay loam, fine sandy (Heavy); Common (10 - 20 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Soil matrix is Slightly calcareous;

Morphological Notes

B2 Carbonate crystals and gypsum? (at 40cm, in one core).

Observation Notes

Red clay, very acidic.

Site Notes

Low undulating hills. Near crest of hill. Oats.

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.1	5.12D	0.057A	18.48H	5.19	0.34	0.35			24.46D	
0.1 - 0.2	5.62D	0.039A	17.89H	5.15	0.12	0.32			23.53D	
0.2 - 0.4	4.88D	0.038A	17.36H	5.31	0.32	0.32			23.89D	
0.5 - 0.7	5.9D	0.052A	16.56H	2.57	0.05	0.24			19.45D	
0.8 - 1	7.42D	0.107A	26.9H	2.44	0.11	0.52			29.96D	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis				
								GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1		1.01A	12J									
0.1 - 0.2												
0.2 - 0.4												
0.5 - 0.7												
0.8 - 1												

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m		g/g - m3/m3							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	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