

Project Name: Hunter Valley Soil Survey
Project Code: HV **Site ID:** CP342 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	C.J. Chartres	Locality:	Dartbrook.
Date Desc.:	04/04/93	Elevation:	No Data
Map Ref.:	Sheet No. : 9033 1:100000	Rainfall:	No Data
Northing/Long.:	150.85111111	Runoff:	No Data
Easting/Lat.:	-32.14611111	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:	Level plain <9m <1%	Pattern Type:	Alluvial plain
Morph. Type:	No Data	Relief:	1 metres
Elem. Type:	Plain	Slope Category:	Level
Slope:	%	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Black Vertosol		Principal Profile Form:	N/A
ASC Confidence:		Great Soil Group:	Black earth
Confidence level not specified			

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.1 m	Very dark grey (10YR3/1-Moist); ; Medium heavy clay; Strong consistence; Common, very fine (0-1mm) roots;
A12	0.1 - 0.2 m	Black (10YR2/1-Moist); ; Light medium clay; Very firm consistence; Common, very fine (0-1mm) roots;
B21	0.2 - 0.35 m	Very dark greyish brown (10YR3/2-Moist); ; Medium clay; Weak consistence; Common, fine (1-2mm) roots;
B2	0.35 - 0.4 m	Dark greyish brown (10YR4/2-Moist); , 10YR63, 0-0% ; Sandy clay loam; Very firm consistence; 2-10%, medium gravelly, 6-20mm, Quartz, coarse fragments; Common, fine (1-
2B1	0.4 - 0.8 m	Very dark greyish brown (10YR3/2-Moist); ; Light medium clay; Very firm consistence; Common, fine (1-2mm) roots;
3B	0.8 - 1 m	Strong brown (7.5YR4/6-Moist); , 10YR72; Sandy clay; Weak consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments;

Morphological Notes

B2	Gravel only in 2 cores.
3B	Reddish quartzitic.

Observation Notes

Shallow Black earth.

Site Notes

North east of hayshed. James Birch (landowner). Hunter land system. Shallow old drainage. Nitram - fertiliser, 50-70kg/ha/yr. Grass pasture.

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.1	6.76D	0.139A	24.4H	19.46	1.55	0.93			46.35D	
0.1 - 0.2	6.81D	0.095A	23.91H	17.28	0.65	0.99			42.84D	
0.2 - 0.4	6.9D	0.119A	17.49H	13.89	0.51	0.93			32.84D	
0.5 - 0.7	7.9D	0.263A	19.94H	15.33	0.56	1.06			36.9D	
0.8 - 1	7.61D	0.195A	13.06H	13.08	0.49	0.72			27.35D	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1		3.01A	63J									
0.1 - 0.2												
0.2 - 0.4												
0.5 - 0.7												
0.8 - 1												

Depth	COLE	Sat.	Gravimetric/Volumetric Water Contents	K sat	K unsat
m			0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15 Bar	mm/h	mm/h
0 - 0.1			g/g - m3/m3		
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 (Ca ²⁺ ,Mg ²⁺ ,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