Project Name: Hunter Valley Soil Survey

Project Code: HV Site ID: CP344 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.: 150.845 Runoff: No Data -32.14888889 Easting/Lat.: 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: Undulating low hills 30-90m 3- Pattern Type: Low hills

10%

Morph. Type:No DataRelief:20 metresElem. Type:HillcrestSlope Category:Very gently slopedSlope:2 %Aspect:225 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/ARed ChromosolPrincipal Profile Form:N/A

ASC Confidence: Great Soil Group: Red-brown earth

Confidence level not specified

Site Disturbance:

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1 0 - 0.12 m Brown (7.5YR4/4-Dry); ; Fine sandy loam (Heavy); Very weak consistence; Common, fine (1-2mm) roots;

B21 0.12 - 0.2 m Reddish brown (5YR4/4-Dry); ; Medium clay; Strong consistence; Common, very fine (0-1mm) roots;

B22 0.2 - 0.42 m Dark reddish brown (5YR3/4-Dry); ; Medium clay; Very firm consistence; Common, very fine (0-1mm) roots;

Red (2.5YR4/6-Dry); , 2.5YR64; Light clay; Firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm),

Soft segregations; Few, very fine (0-1mm) roots;

Morphological Notes

0.42 - 1 m

B21 Pedal

B22 Variable depth to C horizon, from 42-55cm.

Observation Notes

Soil type: Red Brown earth? - Terra Rossa. (Dr.) Parent Material probably Limestone.

Site Notes

С

Dartbrook land system. Alan Bird. Lucerne pasture.

Project Name: Project Code: Agency Name:

Hunter Valley Soil Survey
HV Site ID: CP:
CSIRO Division of Soils (ACT) **CP344** Observation ID: 1

Laboratory Test Results:

Edboratory rest results.													
Depth	pН	pH 1:5 EC		Exchangeable Ca Mg					EC ECEC			ESP	
m		dS/m	Ca	Mg	К	Na Cmol (+	Acidity)/kg					%	
0 - 0.1 0.1 - 0.2 0.2 - 0.4 0.5 - 0.7 0.8 - 1	5.9D 7.14D 7.31D 7.6D 7.69D	0.126A 0.169A 0.164A	18.95H 19.71H 18.79H 18.44H 23.15H	5.28 8.9 8.93 10.51 13.64	1.26 0.94 0.82 0.43 0.36	0.27 0.39 0.56 0.89 2.2			2 2 3	25.82[29.96[29.1D 80.28[89.35[)		
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size				is Clay	
m	%	%	mg/kg	%	%	%	Mg/m3			%	•	,	
0 - 0.1 0.1 - 0.2 0.2 - 0.4 0.5 - 0.7 0.8 - 1		1.86A	10J										
Depth	COLE	Gravimetric/Volumetric Wa				Vater Con	tents		K sa	at	K unsa	at	
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	1	
0 - 0.1 0.1 - 0.2													

0.1 - 0.2 0.2 - 0.4 0.5 - 0.7 0.8 - 1

Project Name: Hunter Valley Soil Survey

Project Code: Н۷ Site ID: **CP344** 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