Project Name: Hunter Valley Soil Survey

Project Code: Site ID: **CP364** Observation ID: 1

CSIRO Division of Soils (ACT) Agency Name:

Site Information

Desc. By: C.J. Chartres Locality: Muswellbrook. Date Desc.: Elevation: 06/04/93 No Data Sheet No.: 9033 Map Ref.: 1:100000 Rainfall: No Data Northing/Long.: 150.86888889 Runoff: No Data Easting/Lat.: -32.31388889 Drainage: No Data

Geology

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

Land Form

Rel/Slope Class: No Data Pattern Type: Low hills Morph. Type: Elem. Type: Lower-slope Relief: No Data

Slope Category: Very gently sloped Hillslope 3 % Aspect: 180 degrees Slope:

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Principal Profile Form: N/A

ASC Confidence: Great Soil Group: Solodic soil

Confidence level not specified

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

0 - 0.12 m Yellowish brown (10YR5/4-Dry); ; Silty loam; Field pH 7 (Raupach); Abundant, fine (1-2mm) roots; Gradual, Smooth change to -

0.12 - 0.2 m A2 Very pale brown (10YR7/4-Dry);; Silty loam; Field pH 4.5 (Raupach); Many, very fine (0-1mm)

roots; Abrupt, Smooth change to -

Brown (7.5YR4/4-Dry); ; Medium clay; Common, very fine (0-1mm) roots; Gradual, Smooth B21 0.2 - 0.4 m

change to -

B22 0.4 - 1 m Yellowish red (5YR4/6-Moist); ; Light medium clay; 0-2%, medium gravelly, 6-20mm, rounded,

Quartz, coarse fragments; Few (2 - 10 %), Manganiferous, , Soft segregations; Soil matrix is

Slightly calcareous; Few, very fine (0-1mm) roots;

Morphological Notes

Very hard.

Observation Notes

Red duplex soil.

Site Notes

Approximately in drainage line. Tall pasture.

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Laboratory Test Results:

Laboratory Test Results.											
Depth	pH 1:5 EC		Exchangeable Ca Mg		e Cations K Na		Exchangeable Acidity	CEC	EC	EC	ESP
m		dS/m	Ca I	wig	K	Cmol (•				%
0 - 0.1 0.1 - 0.18 0.2 - 0.4 0.5 - 0.7 0.8 - 1	4.85D 5.2D 6.8D 7.8D 7.95D	0.048A 0.051A 0.405A 1.51A 1.733A	3.09H	1.79 2.18 11.78 12.97 11.64	0.44 0.15 0.31 0.34 0.52	0.22 0.5 5.03 12.27 14.43			5.9 23.5 34.5	68D 66D 52D 59D 63D	
Depth	CaCO3	Organic	Avail. P	Total P	Total	Tota K				ze An	-
m	%	C %	mg/kg	%	N %	%		GV		'S	Silt Clay
0 - 0.1 0.1 - 0.18 0.2 - 0.4 0.5 - 0.7 0.8 - 1		1.91A	1J								
Depth	COLE		Gravimetric/Volumetric					_	K sat	nt K unsat	
m		Sat.	0.05 Bar	0.1 Bar g/	0.5 Bar /g - m3/m	1 Bar 13	5 Bar 15	Bar	mm/h	n	mm/h
0 01											

0 - 0.1 0.1 - 0.18 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