Project Name: Hunter Valley Soil Survey

Project Code: Site ID: **CP343** Observation ID: 1 HV

CSIRO Division of Soils (ACT) Agency Name:

Site Information

C.J. Chartres Locality:

Desc. By: Date Desc.: Elevation: 04/04/93 No Data Sheet No.: 9033 Map Ref.: 1:100000 Rainfall: No Data Northing/Long.: 150.86694444 Runoff: No Data -32.14805556 Easting/Lat.: Drainage: No Data

Geology

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

Land Form

Rel/Slope Class: Level plain <9m <1% Pattern Type: Alluvial plain Morph. Type: Elem. Type: Relief: No Data **Slope Category:** Levee Level No Data 1 % Aspect: Slope:

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

0 - 0.1 m Very dark brown (10YR2/2-Dry); ; Light medium clay; Strong consistence; Common, fine (1-

A12 0.1 - 0.2 m Very dark greyish brown (10YR3/2-Dry); ; Light medium clay; Weak consistence; Few, medium

(2-5mm) roots;

B2 Dark brown (10YR3/3-Dry); ; Light clay (Light); Weak consistence; Few, fine (1-2mm) roots; 0.2 - 0.4 m

2 0.4 - 1 m Black (2.5Y2/0-Moist); ; Medium clay; Firm consistence; Few, very fine (0-1mm) roots;

Morphological Notes

Black clay.

Observation Notes

Soil type: Prairee/Black earth?

Site Notes

James Birch. Lucerne pasture. Sandier site.

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Laboratory Test Results:

<u>Laboratory</u>			F	l l. l .	0-4:			050		F0F0		- 00
Depth	pН	1:5 EC		hangeable Mg	K Cations	Na E	Exchangeable Acidity	CEC		ECEC		ESP
m		dS/m	ou ·	9	.,	Cmol (+)						%
0 - 0.1 0.1 - 0.2 0.2 - 0.4 0.5 - 0.7 0.8 - 1	6.63D 7D 6.62D 7.11D 7.42D	0.101A 0.275A	21H 23.41H 21.29H 30.19H 29.1H	15.1 15.41 13.76 18 26.21	0.34 0.25 0.21 0.22 0.22	0.9 1.15 1.24 2.44 5.12			;	37.35[40.24[36.52[50.86[60.66[))	
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		3.13A	39J									
Depth	COLE	Gravimetric/Volumetric W				Vater Conf	tents		Ks	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 E	3ar	mm	/h	mm/h	ì
0 - 0.1 0.1 - 0.2												

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