Project Name: Hunter Valley Soil Survey

Project Code: HV Site ID: CP384 Observation ID: 1

Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By: C.J. Chartres Locality: Cessnock State Forest.

Date Desc.: Elevation: 08/04/93 5 metres Sheet No.: 9132 Map Ref.: 1:100000 Rainfall: No Data Northing/Long.: 151.38194444 Runoff: No Data Easting/Lat.: -32.80805556 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 DataPattern Type:No DataMorph. Type:Mid-slopeRelief:No DataElem. Type:No DataSlope Category:Gently inclinedSlope:5 %Aspect:180 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/ABrown KurosolPrincipal Profile Form:N/AASC Confidence:Great Soil Group:Soloth

Confidence level not specified

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1 0 - 0.1 m Brown (10YR4/3-Dry); ; Loamy sand; 2-10%, medium gravelly, 6-20mm, coarse fragments; Many, fine (1-2mm) roots;

A2 0.1 - 0.2 m Pinkish grey (7.5YR7/2-Dry); ; Loamy sand; 2-10%, medium gravelly, 6-20mm, coarse fragments; Many, medium (2-5mm) roots;

B21 0.2 - 0.5 m Yellowish brown (10YR5/4-Dry); , 10YR58, 10-20% , 5-15mm, Faint; Medium clay; 0-2%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments; Common, medium (2-5mm) roots;

BC 0.5 - 1 m Light yellowish brown (10YR6/4-Dry); , 5YR56, 10-20% , 5-15mm, Distinct; , 10YR73; Light

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

Morphological Notes

B21 Light Clay texture is sandy.

Observation Notes

Site Notes

Spotted gums and ground cover. Undulating low hills.

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Laboratory Test Results:

Laboratory	I CSt ItC	Juito.								
Depth	рН	1:5 EC		hangeable			Exchangeable	CEC	ECE	C 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	4.88D 4.48D 4.75D 5.02D 5.95D	0.065A 0.037A 0.342A 0.73A 0.903A	0.04H 0.14H	1.87 0.44 8.61 9.33 11.44	0.39 0.13 0.24 0.18 0.28	0.25 0.16 2.84 6.93 8.06			5.73 1.45 12.06 16.66 20.02	D 6D 6D
Depth	CaCO3	Organic	Avail.	Total	Total	Tota			rticle Size	•
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	CS FS %	
0 - 0.1 0.1 - 0.2 0.2 - 0.4 0.5 - 0.7 0.8 - 1		1.93A	2J							
Depth	COLE		Grav	/imetric/Vo	olumetric V	Vater Cor	itents		K sat	K unsat
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
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 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