Project Name: **Wellington Blackwood land resources survey**
Project Code: **WBW** **Site ID:** **1140** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By: Peter Tille
Date Desc.: 10/02/93
Map Ref.:
Northing/Long.: 6253959 AMG zone: 50
Easting/Lat.: 447257 Datum: AGD84
Locality:
Elevation: No Data
Rainfall: No Data
Runoff: No Data
Drainage: No Data

Geology

ExposureType: Existing vertical exposure
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: No Data

Landform

Rel/Slope Class: No Data
Morph. Type: Mid-slope
Elem. Type: Breakaway
Slope: %
Pattern Type: No Data
Relief: No Data
Slope Category: No Data
Aspect: No Data

Surface Soil Condition

Hardsetting

Erosion

Soil Classification

Australian Soil Classification:
Ferric Magnesic-Natric Red Kurosol
ASC Confidence:
Confidence level not specified
Mapping Unit: N/A
Principal Profile Form: N/A
Great Soil Group: N/A

Site Disturbance

Limited clearing, for example selective logging

Vegetation

Surface Coarse Fragments

50-90%, medium gravelly, 6-20mm, , Ironstone

Profile Morphology

A1 0 - 0.1 m Brown (7.5YR5/2-Moist); ; Sandy loam; Weak grade of structure, ; Sandy (grains prominent) fabric; 20-50%, medium gravelly, 6-20mm, subrounded, Ironstone, coarse fragments;

A3 0.1 - 0.2 m Brown (7.5YR5/4-Moist); ; Sandy loam; Weak grade of structure, ; Smooth-ped fabric; 50-90%, coarse gravelly, 20-60mm, subrounded, Ironstone, coarse fragments;

B1 0.2 - 0.3 m Reddish yellow (5YR6/6-Moist); , 10-20% ; Medium clay; Moderate grade of structure, Polyhedral; Rough-ped fabric; Clear change to -

B2 0.3 - 0.9 m Yellowish red (5YR5/8-Moist); , 10-20% ; Medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Many

B3 0.9 - 1.1 m Pinkish white (5YR8/2-Moist); , 20-50% ; Medium clay; Strong grade of structure, Angular blocky; Smooth-ped fabric;

Morphological Notes

B1 MOTTLE COLOUR GREY
B2 MOTTLE COLOUR RED, YELLOW, Lots of tree roots in 4th laye
B3 MOTTLE COLOUR RED, ORANGE, YELLOW

Observation Notes

Site Notes

Midslope below breakaway. Some topsoil may be missing. Seems to have been some sheeting. pink clay.

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.1	5.2B 6H	8B	2.93H	1.04	0.15	0.46	0.38J		4.58D	
0.1 - 0.2	5.1B 5.9H	9B	0.95H	1.09	0.04	0.39	0.21J		2.47D	
0.22 - 0.3	4.7B 5.1H	22B	0.28H	2.28	0.04	0.43	0.22J		3.03D	
0.3 - 0.6	4.6B 5H	45B	0.04H	3.24	<0.02	0.83	0.3J		4.12D	
0.6 - 0.9	4.5B 5H	28B	0.03H	2.92	<0.02	0.79	0.35J		3.75D	
0.9 - 1.1	4.7B 5.1H	49B	<0.02H	2.82	<0.02	1.3	0.16J		4.14D	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis			
		Clay						GV	CS	FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.1 8.9		3.39D		98B	0.112E						7.5
0.1 - 0.2 13.1		1.18D		62B	0.042E						9
0.22 - 0.3 43.2		0.57D		46B	0.024E						10
0.3 - 0.6 60.8		0.45D		43B	0.014E						12.8
0.6 - 0.9 55.9		0.4D		38B	0.012E						14
0.9 - 1.1 49.6		0.32D		45B	0.01E						16.8

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMR	Exchangeable bases (Ca/Mg ratio) - Not recorded
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble salts
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_MN	Exchangeable bases (Mn2+) 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
15N1_b	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
4B_AL_NR	Aluminium in 1:5 soil/0.01M calcium chloride extract - method not recorded
4B1	pH of 1:5 soil/0.01M calcium chloride extract - direct
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A1	Total nitrogen - semimicro Kjeldahl, steam distillation
9A3	Total Phosphorus (ppm) - semimicro kjeldahl, automated colour
9H1	Anion storage capacity
P10_1m2m	1000 to 2000u particle size analysis, (method not recorded)
P10_20_75	20 to 75u particle size analysis, (method not recorded)
P10_75_106	75 to 106u particle size analysis, (method not recorded)
P10_NR_C	Clay (%) - Not recorded
P10_NR_Saa	Sand (%) - Not recorded arithmetic difference, auto generated
P10_NR_Z	Silt (%) - Not recorded
P10106_150	106 to 150u particle size analysis, (method not recorded)
P10150_180	150 to 180u particle size analysis, (method not recorded)

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P10180_300	180 to 300u particle size analysis, (method not recorded)
P10300_600	300 to 600u particle size analysis, (method not recorded)
P106001000	600 to 1000u particle size analysis, (method not recorded)