

Project Name: Wellington Blackwood land resources survey
Project Code: WBW **Site ID:** 0989 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Peter Tille	Locality:	
Date Desc.:	12/11/92	Elevation:	No Data
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6241876 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	414324 Datum: AGD84	Drainage:	No Data

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	No Data

Landform

Rel/Slope Class:	No Data	Pattern Type:	No Data
Morph. Type:	Crest	Relief:	No Data
Elem. Type:	No Data	Slope Category:	No Data
Slope:	2.5 %	Aspect:	No Data

Surface Soil Condition Firm, Hardsetting

Erosion

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Haplic Mesotrophic Red Dermosol	Principal Profile Form:	N/A
ASC Confidence:	Great Soil Group:	N/A

Analytical data are incomplete but reasonable confidence.

Site Disturbance Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation

Surface Coarse Fragments

Profile Morphology

A1	0 - 0.1 m	Reddish brown (5YR4/3-Moist); ; Fine sandy loam; Moderate grade of structure, ; Massive grade of structure; Moist; 2-10%, medium gravelly, 6-20mm, Ironstone, coarse fragments; Field pH 7.6 (pH meter); Abundant
A3	0.1 - 0.3 m	Yellowish red (5YR4/6-Moist); ; Fine sandy clay loam; Weak grade of structure, Polyhedral; ; ; Earthy fabric; Moist; 2-10%, medium gravelly, 6-20mm, Ironstone, coarse fragments; Field pH 4.8 (pH meter); Common
B2t	0.3 - 0.6 m	Yellowish red (5YR5/8-Moist); , 10-20% , Faint; Light clay; Weak grade of structure, Polyhedral; Smooth- ped fabric; Moist; Field pH 7.1 (pH meter); Few
B2t	0.6 - 1.2 m	Yellowish red (5YR5/8-Moist); , 5YR58, 20-50% ; , 10YR68; Light clay; Moderate grade of structure, Polyhedral; Smooth-ped fabric; Moist; 2-10%, medium gravelly, 6-20mm, Ironstone, coarse fragments; Field pH 6.6 (pH meter); Few
	1.2 - 1.5 m	;
	1.5 - 1.75 m	;

Morphological Notes

B2t	orange mottles
B2t	some decomposing rock floaters

Observation Notes

Site Notes

used to be orchard, now agroforestry

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.1	5.3B 6.1H	6B	9.88H	1.37	0.7	0.18	0.11J		12.13D	
0.1 - 0.3	5.5B 6.3H	3B	4.98H	0.53	0.22	0.07	0.03J		5.8D	
0.3 - 0.6	5.8B 6.5H	5B	2.45H	1.44	0.12	0.07	<0.02J		4.08D	
0.6 - 0.9	6B 6.4H	6B	1.39H	1.55	<0.02	<0.05	<0.02J		2.975D	
0.9 - 1.2	5.9B 6.2H	5B	0.95H	1.38	0.02	0.05	<0.02J		2.4D	
1.2 - 1.5	4.5B 5H	5B	0.69H	1.43	0.03	0.05	0.31J		2.2D	
1.5 - 1.75	4.4B 4.9H	4B	0.48H	1.41	<0.02	0.04	0.29J		1.94D	

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m3	GV CS FS Silt
0 - 0.1		4.32D		520B	0.296E			23
13.2								
0.1 - 0.3		1.56D		150B	0.098E			12.2
13								
0.3 - 0.6		0.55D		53B	0.029E			14.5
47.4								
0.6 - 0.9		0.24D		43B	0.013E			21.7
45.1								
0.9 - 1.2		0.14D		31B	0.01E			21.6
36.7								
1.2 - 1.5		0.12D		32B	0.009E			28.3
32.2								
1.5 - 1.75		0.12D		24B	0.007E			26.1
24.4								

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMV	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

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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)
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)