

Project Name: Wellington Blackwood land resources survey
Project Code: WBW **Site ID:** 0937 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Peter Tille	Locality:	
Date Desc.:	28/05/93	Elevation:	No Data
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6311636 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	424010 Datum: AGD84	Drainage:	Well drained

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:	No Data	Relief:	No Data
Elem. Type:	No Data	Slope Category:	No Data
Slope:	%	Aspect:	No Data

Surface Soil Condition

Erosion

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Ferric Mesotrophic Red Dermosol		Principal Profile Form:	N/A
ASC Confidence:		Great Soil Group:	N/A
All necessary analytical data are available.			

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

Vegetation

Surface Coarse Fragments

Profile Morphology

A1	0 - 0.1 m	Dusky red (2.5YR3/2-Moist); ; Fine sandy loam; ; ; Rough-ped fabric; Moist; 20-50%, medium gravelly, 6- (Raupach); Gradual change to -
A3	0.1 - 0.25 m	Red (2.5YR4/6-Moist); ; Fine sandy loam; ; ; Rough-ped fabric; Moist; 50-90%, medium gravelly, 6- 20mm, subangular, Ironstone, coarse fragments; Field pH 5.5 to -
B1	0.25 - 0.4 m	Red (2.5YR4/6-Moist); ; Fine sandy clay loam; ; ; Rough-ped fabric; Moist; 50-90%, medium gravelly, 6- 20mm, subangular, Ironstone, coarse fragments; Field pH 6 (Raupach); Gradual change to -
B21	0.4 - 0.55 m	Red (2.5YR4/8-Moist); ; Sandy light clay; Massive grade of structure, 2-5 mm; ; Rough- ped fabric; Moist; 50-90%, coarse gravelly, 20-60mm, subangular, Ironstone, coarse fragments; Field pH 6 (Raupach);
B22	0.55 - 0.7 m	Red (2.5YR4/8-Moist); ; Light clay; Moderate grade of structure, 5-10 mm; ; , Polyhedral; Rough-ped fabric; Moist; 20-50%, medium gravelly, 6-20mm, subangular, Ironstone, coarse fragments; Field pH 6 (Raupach);
B3	0.7 - 1 m	Yellowish red (5YR4/6-Moist); ; Moderate grade of structure, 10-20 mm; ; Strong grade of structure, 10- 20 mm, Polyhedral; Smooth-ped fabric; Moist; 50-90%, coarse gravelly, 20-60mm, subangular, Ironstone, coarse fragments; Field pH 6 (Raupach);
B4	1 - 1.3 m	Yellowish red (5YR4/6-Moist); ; 20-50% , Distinct; Moderate grade of structure, 10-20 mm; ; Strong grade of structure, 10-20 mm, Polyhedral; Smooth-ped fabric; Moist; 50-90%, medium gravelly, 6-20mm, subangular, Ironstone, coarse fragments; Field pH 6 (Raupach);

B5 1.3 - 1.5 m , 20-50% , Distinct; Medium clay; Moderate grade of structure, 10-20 mm, ; Strong grade of structure,
10-20 mm, Polyhedral; Smooth-ped fabric; Moist; Field pH 6 (Raupach);

Morphological Notes

B22 peds were also smooth faced
B3 some rough faced peds
B4 some rough faced peds, coating coloured 7.5YR4/8 in peds, reddy yellow mottles
B5 some rough faced peds, peds coated in red, red mottles

Observation Notes

Site Notes

colluvial soil

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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	5B 5.6H	12B	8.43H	1.15	0.3	0.36	0.59J		10.24D	
0.1 - 0.25	5B 5.8H	3B	4.88H	1.04	0.05	0.13	0.3J		6.1D	
0.25 - 0.4	5.3B 6.1H	2B	2.95H	1.13	0.05	0.12	0.06J		4.25D	
0.4 - 0.55	5.4B 6.1H	3B	2.34H	1.49	0.04	0.13	0.03J		4D	
0.55 - 0.7	5.6B 5.8H	4B	2.05H	2.1	0.06	0.18	0.04J		4.39D	
0.7 - 1	5.8B 6.1H	4B	1.96H	2.49	0.04	0.17	0.02J		4.66D	
1.3 - 1.5	6.2B 6.1H	2B	1.41H	2.4	<0.02	0.16	<0.02J		3.98D	

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		6.1D		110B	0.139E			11.8
5.1								
0.1 - 0.25		2.41D		180B	0.099E			12.5
19								
0.25 - 0.4		0.84D		100B	0.044E			9.6
23.5								
0.4 - 0.55		0.57D		110B	0.037E			8.7
42.8								
0.55 - 0.7		0.34D		120B	0.025E			10
66								
0.7 - 1		0.34D		130B	0.027E			9.1
70.2								
1.3 - 1.5		0.21D		140B	0.013E			20.6
52.3								

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)