

Project Name: Wellington Blackwood land resources survey
Project Code: WBW **Site ID:** 1201 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	John-Paul Van Moort	Locality:	
Date Desc.:	24/11/93	Elevation:	No Data
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6275736 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	389316 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:	Mid-slope	Relief:	No Data
Elem. Type:	No Data	Slope Category:	No Data
Slope:	3 %	Aspect:	No Data

Surface Soil Condition

Erosion

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Ferric Mesotrophic Yellow Chromosol		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

Ap	0 - 0.1 m	Very dark brown (10YR2/2-Moist); ; Clayey fine sand; Massive grade of structure, Granular; Sandy fragments;
		(grains prominent) fabric; Moist; 2-10%, fine gravelly, 2-6mm, rounded, Ironstone, coarse Field pH 5 (Raupach); Abundant, fine (1-2mm) roots; Gradual change to -
A3	0.1 - 0.4 m	Brownish yellow (10YR6/6-Moist); ; Clayey fine sand; Massive grade of structure, Granular; Sandy (Raupach); (grains prominent) fabric; Moist; 2-10%, rounded, Ironstone, coarse fragments; Field pH 6 Abundant, fine (1-2mm) roots; Gradual change to -
B1	0.4 - 0.75 m	Brownish yellow (10YR6/6-Moist); ; Clayey fine sand; Massive grade of structure, Granular; Sandy (grains prominent) fabric; Moist; 2-10%, rounded, Ironstone, coarse fragments; Field pH 5.5 (Raupach); Gradual change to -
B2	0.75 - 1.05 m	Brownish yellow (10YR6/6-Moist); , 7.5YR68, 20-50% ; Silty light clay; Massive grade of structure, fragments; Field Polyhedral; Moist; 50-90%, medium gravelly, 6-20mm, subrounded, Ironstone, coarse pH 5.5 (Raupach);
B3	1.05 - 1.2 m	, 5YR48, 20-50% ; , 10YR68, 20-50% ; Silty medium clay; , Polyhedral; Smooth-ped fabric; Moist; Field pH 5 (Raupach);
	1.2 - 1.7 m	, 10YR72, 20-50% ; , 2.5YR48, 20-50% ; Silty medium clay; , Polyhedral; Smooth-ped fabric;
	1.7 - 2.3 m	;

Morphological Notes

Ap	SANDY LOAM
A3	EARTHWORMS. SANDY LOAM
	GNEISS

Observation Notes

Site Notes

Has sst frags, overlies kaolin.

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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	4.4B 4.9H	8B	1.75H	0.13	0.09	0.06	1.78J		2.03D	
0.1 - 0.4	4.8B 5.4H	2B	0.46H	0.08	0.03	0.02	0.32J		0.59D	
0.4 - 0.7	4.8B 5.5H	2B	0.78H	0.22	0.03	0.02	0.12J		1.05D	
0.75 - 1.05	5.5B 5.8H	2B	0.83H	3.2	0.04	0.1	<0.02J		4.17D	
1.05 - 1.2	5.3B 5.7H	3B	0.47H	4.94	0.07	0.18	<0.02J		5.66D	
1.2 - 1.5	4.8B 5.6H	3B	0.36H	6.46	0.11	0.24	0.14J		7.17D	
1.5 - 1.7	4.2B 5H	3B	0.13H	6.3	0.12	0.29	1.25J		6.84D	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size	Analysis
m	%	Clay %	mg/kg	%	%	%	Mg/m3	GV CS FS	Silt
0 - 0.1		3.39D		300B	0.204E				4.9
0.1 - 0.4		0.62D		43B	0.03E				3.2
0.4 - 0.7		0.22D		28B	0.015E				2.4
0.75 - 1.05		0.18D		55B	0.02E				4.7
1.05 - 1.2		0.14D		63B	0.018E				8.8
1.2 - 1.5		0.12D		65B	0.017E				13.3
1.5 - 1.7		0.11D		65B	0.017E				17

Laboratory Analyses Completed for this profile

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