

Project Name: Wellington Blackwood land resources survey
Project Code: WBW **Site ID:** 1202 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	John-Paul Van Moort	Locality:	
Date Desc.:	23/11/93	Elevation:	No Data
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6275457 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	389541 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:	Mid-slope	Relief:	No Data
Elem. Type:	No Data	Slope Category:	No Data
Slope:	4 %	Aspect:	No Data

Surface Soil Condition Soft

Erosion

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Eutrophic Brown 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

A1	0 - 0.05 m	Very dark brown (10YR2/2-Moist); ; Silty loam; Massive grade of structure, ; Sandy (grains prominent)
Field pH 5		fabric; Dry; 2-10%, medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; (Raupach); Abundant, fine (1-2mm) roots; Gradual change to -
A3	0.05 - 0.15 m	Dark brown (7.5YR3/2-Moist); ; Sandy clay loam; Massive grade of structure, Granular; (grains prominent) fabric; Dry; 2-10%, medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; Field
		pH 5.5 (Raupach); Gradual change to -
B1	0.15 - 0.25 m	Strong brown (7.5YR5/6-Moist); ; Silty light clay; Massive grade of structure, Granular; (grains prominent) fabric; Moist; 2-10%, medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; Field
		pH 6 (Raupach); Gradual change to -
B2	0.25 - 0.5 m	Strong brown (7.5YR4/6-Moist); ; Silty medium clay; Massive grade of structure, (Polyhedral; Rough-ped fabric; Moist; 2-10%, medium gravelly, 6-20mm, Quartz, coarse fragments; Field pH 6 (Raupach);
B3	0.5 - 0.7 m	Dark yellowish brown (10YR4/6-Moist); ; 5Y62, 20-50% ; , 10YR46, 20-50% ; Medium clay; Massive grade of structure, Polyhedral; Smooth-ped fabric; Moist; Field pH 6.5 (Raupach);
Abundant		
C	0.7 - 1 m	Dark yellowish brown (10YR4/6-Moist); ;

Morphological Notes

C WEATHERED METAMORPHOSED DOLERITE

Observation Notes

Site Notes

Ploughed paddock. Weathered rock outcrops

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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 - 0.05	4.2B 4.7H	18B	4.44H	0.68	0.28	0.33	2.09J		5.73D	
0.05 - 0.15	4B 4.6H	7B	1.68H	0.3	0.08	0.09	2.33J		2.15D	
0.15 - 0.25	4.3B 5.1H	3B	3.07H	1.84	0.06	0.08	0.98J		5.05D	
0.25 - 0.5	4.7B 5.5H	4B	4.14H	5.58	0.09	0.16	0.3J		9.97D	
0.5 - 0.7	5.1B 5.7H	5B	3.62H	10.29	0.14	0.35	0.03J		14.4D	
0.7 - 1	5.4B 6.5H	5B	4.3H	14.49	0.2	0.78	<0.02J		19.77D	

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 - 0.05		6.99D		710B	0.58E			8.4
5.5								
0.05 - 0.15		2.52D		270B	0.188E			13.5
13.2								
0.15 - 0.25		0.69D		84B	0.062E			10.6
29.2								
0.25 - 0.5		0.64D		82B	0.067E			9.2
50.7								
0.5 - 0.7		0.5D		64B	0.054E			9.7
62.8								
0.7 - 1		0.2D		25B	0.025E			13.2
52.7								

Laboratory Analyses Completed for this profile

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