

Project Name: Wellington Blackwood land resources survey
Project Code: WBW **Site ID:** 1013 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Peter Tille	Locality:	
Date Desc.:	14/01/93	Elevation:	No Data
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6241113 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	454715 Datum: AGD84	Drainage:	No Data

Geology

ExposureType:	Existing vertical exposure	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:	2 %	Aspect:	No Data

Surface Soil Condition Soft

Erosion

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
N/A		Principal Profile Form:	N/A
ASC Confidence:		Great Soil Group:	N/A
Confidence level not specified			

Site Disturbance Limited clearing, for example selective logging

Vegetation

Surface Coarse Fragments 2-10%, medium gravelly, 6-20mm, , Ironstone

Profile Morphology

A11	0 - 0.03 m	Dark greyish brown (10YR4/2-Moist); ; Sandy loam; Weak grade of structure, ; Sandy (grains prominent)
Water repellent;		fabric; Dry; 2-10%, medium gravelly, 6-20mm, subangular, Ironstone, coarse fragments;
		Field pH 6 (Raupach); Clear change to -
A12	0.03 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); ; Sandy loam; Weak grade of structure,
Polyhedral; Sandy		(grains prominent) fabric; Dry; 20-50%, medium gravelly, 6-20mm, subangular, Ironstone,
coarse		fragments; Water repellent; Field pH 6.5 (Raupach); Clear change to -
B11	0.1 - 0.25 m	Yellowish red (5YR5/6-Moist); ; Medium heavy clay; Strong grade of structure, 50-100
mm, Angular		blocky; Rough-ped fabric; Dry; 0-2%, fine gravelly, 2-6mm, angular, Ironstone, coarse
fragments; Water		repellent; Field pH 5.5 (Raupach); Clear change to -
B12	0.25 - 0.4 m	Light reddish brown (5YR6/4-Moist); ; Medium heavy clay; Strong grade of structure, 20-
50 mm, Angular		blocky; Smooth-ped fabric; Dry; Field pH 5.5 (Raupach); Gradual change to -
B21	0.4 - 0.6 m	Light reddish brown (5YR6/3-Moist); , 2-10% , Faint; Medium heavy clay; Strong grade of
structure, 20-		50 mm, Angular blocky; Smooth-ped fabric; Dry; Field pH 5.5 (Raupach); Gradual change
to -		
B22	0.6 - 0.75 m	White (10YR8/2-Moist); , 2-10% , Distinct; Medium clay; Moderate grade of structure, 10-
20 mm,		Polyhedral; Smooth-ped fabric; Dry; 10-20%, medium gravelly, 6-20mm, subangular,
Ironstone, coarse		fragments; Field pH 6.5 (Raupach); Clear change to -
B3	0.75 - 0.9 m	White (10YR8/1-Moist); , 20-50% , Distinct; Sandy light clay; Massive grade of structure,
10-20 mm,		Angular blocky; Smooth-ped fabric; Dry; 2-10%, medium gravelly, 6-20mm, subangular,
Ironstone, coarse		fragments; Field pH 4.5 (Raupach); Clear change to -

B4	0.9 - 1.3 m structure, 10-20 mm, fragments; Field pH	White (10YR8/1-Moist); , 20-50% , Distinct; Light medium clay; Moderate grade of Subangular blocky; Smooth-ped fabric; Dry; 10-20%, subangular, Ironstone, coarse 6.5 (Raupach);
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Morphological Notes

B11	some smooth fabric. Ped no slake,disp, RM -slake 100%, some disp
B21	structure very tough, hard cons. mottles - colour - orange red
B22	mottle - col, orange red
B3	indurated. mottle colour red. roots fairly common until 75cm - stop abruptly
B4	mottle colour orange red. last three layers eroded in profile (under cutting

Observation Notes

Site Notes

Road cutting, topsoil described from nearby. Soil type pink clay

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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	5.8B 6.2H	64B	11.75H	9.2	0.34	1.06	<0.02J		22.35D	
0.1 - 0.25	4.8B 5.2H	64B	1.76H	7.65	0.1	0.58	0.15J		10.09D	
0.25 - 0.4	4.6B 4.9H	77B	1.44H	8.09	0.07	0.73	0.32J		10.33D	
0.4 - 0.6	4.7B 5H	60B	1.37H	9.61	0.05	1.05	0.23J		12.08D	
0.6 - 0.75	4.5B 4.9H	120B	0.46H	7.49	0.04	1.52	0.12J		9.51D	
0.75 - 0.9	4.4B 4.4H	1100B	0.26H	9.04	<0.02	4.27	0.09J		13.58D	
0.9 - 1.3	4.5B 4.7H	260B	0.14H	6.39	<0.02	2.34	0.06J		8.88D	

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		5.86D		140B	0.26E			19.1
0.1 - 0.25		0.91D		28B	0.035E			22.5
0.25 - 0.4		0.9D		24B	0.036E			24.6
0.4 - 0.6		0.94D		18B	0.029E			33.9
0.6 - 0.75		0.48D		8B	0.016E			53.6
0.75 - 0.9		0.26D		9B	0.009E			24.5
0.9 - 1.3		0.1D		6B	0.004E			40.1

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)