

**Project Name:** Wellington Blackwood land resources survey  
**Project Code:** WBW **Site ID:** 1079 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

<b>Desc. By:</b>	Peter Tille	<b>Locality:</b>	
<b>Date Desc.:</b>	28/01/93	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>		<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6304052 AMG zone: 50	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	427966 Datum: AGD84	<b>Drainage:</b>	Poorly drained

#### Geology

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

#### Landform

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	No Data
<b>Morph. Type:</b>	Lower-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	No Data	<b>Slope Category:</b>	No Data
<b>Slope:</b>	5 %	<b>Aspect:</b>	No Data

#### Surface Soil Condition Loose

#### Erosion

#### Soil Classification

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Bleached-Mottled Natric Grey Kurosol		<b>Principal Profile Form:</b>	N/A
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	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	Very dark grey (2.5YR3/0-Moist); ; Sandy loam; Weak grade of structure, ; Sandy (grains prominent)
		fabric; Dry; Field pH 5.1 (Raupach); Clear change to -
A21	0.1 - 0.4 m	Light grey (10YR7/1-Moist); ; Sand; Weak grade of structure, Granular; Dry; Field pH 7.5 (Raupach);
		Gradual change to -
A22	0.4 - 0.7 m	Light grey (10YR7/1-Moist); ; Sand; Weak grade of structure, ; Moderately moist; Gradual change to -
A23	0.7 - 1.2 m	Light grey (10YR7/1-Moist); , 2-10% ; Sand; Weak grade of structure, ; Moderately moist; Gradual change to -
B1	1.2 - 1.3 m	Very pale brown (10YR7/3-Moist); , 2-10% ; Sand; Weak grade of structure; Moist; Field pH 7.3 (Raupach); Clear change to -
B2	1.3 - 1.6 m	, 20-50% ; Coarse sandy light clay; Massive grade of structure; Moist; Field pH 6.8 (Raupach);

#### Morphological Notes

A23	MOTTLE COLOUR FAINT BROWN
B1	MOTTLE COLOUR DISTINCT BROWN CLAY
B2	MOTTLE COLOUR ORANGE

#### Observation Notes

#### Site Notes

Laterite upslope

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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	3.8B 4.8H	3B	3.09H	0.36	0.25	0.1	0.55J		3.8D	
0.4 - 0.7	4.6B 5.4H	1B	0.05H	0.05	<0.02	0.03	0.03J		0.14D	
1.2 - 1.3	4.5B 5.2H	2B	0.04H	0.09	<0.02	0.06	0.14J		0.2D	
1.3 - 1.6	4.2B 4.8H	9B	0.1H	0.57	0.03	0.44	0.34J		1.14D	

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		2.62D		68B	0.115E			2.2
1.1								
0.4 - 0.7		0.07D		23B	0.006E			0.3
0.9								
1.2 - 1.3		0.07D		21B	0.006E			1.1
2.7								
1.3 - 1.6		0.09D		26B	0.009E			1.1
22.7								

**Laboratory Analyses Completed for this profile**

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