

Project Name: Wellington Blackwood land resources survey
Project Code: WBW **Site ID:** 0936 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Peter Tille	Locality:
Date Desc.: 29/05/93	Elevation: No Data
Map Ref.:	Rainfall: No Data
Northing/Long.: 6315966 AMG zone: 50	Runoff: No Data
Easting/Lat.: 434868 Datum: AGD84	Drainage: Poorly 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: Lower-slope	Relief: No Data
Elem. Type: No Data	Slope Category: No Data
Slope: 4 %	Aspect: No Data

Surface Soil Condition

Erosion

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Mottled-Sodic Mesotrophic Grey Kandosol	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, but never cultivated

Vegetation

Surface Coarse Fragments

Profile Morphology

A1	0 - 0.1 m	Grey (10YR5/1-Moist); ; Loamy sand; Massive grade of structure, ; Weak grade of structure, ; Dry; Field pH 5 (Raupach);
A2	0.1 - 0.4 m	Pale brown (10YR6/3-Moist); ; Clayey sand; Massive grade of structure; Weak grade of (grains prominent) fabric; Moist; Field pH 6 (Raupach);
A3	0.4 - 0.6 m	Very pale brown (10YR7/4-Moist); ; Sandy loam; Massive grade of structure; Weak grade of structure; Sandy (grains prominent) fabric; Moist; Field pH 6.5 (Raupach);
B11	0.6 - 0.7 m	Very pale brown (10YR7/4-Moist); ; 2-10% ; Sandy clay loam; Massive grade of structure; Weak grade of structure; Sandy (grains prominent) fabric; Moist; 2-10%, Ironstone, coarse fragments; Field pH 6.5 (Raupach);
B12	0.7 - 1 m	Very pale brown (10YR8/3-Moist); ; 20-50% ; Sandy clay loam; Moderate grade of structure; Moist; 50-90%, coarse gravelly, 20-60mm, subangular, Ironstone, coarse fragments; Field pH 6.5 (Raupach);
B21	1 - 1.3 m	White (10YR8/1-Moist); ; 20-50% ; Light clay; Moderate grade of structure, Angular blocky; Smooth-ped fabric; Moist; 2-10%, medium gravelly, 6-20mm, angular, Ironstone, coarse fragments; Field pH 6.5 (Raupach);
B22	1.3 - m	; Light clay;

Morphological Notes

B11	orange mottles
B12	almost indurated, bright orange mottles
B21	lots of root channels and stains, bright orange and some red mottles

Observation Notes

Site Notes

soil analysis samples 245-247, 160mS/m at water table (175cm)

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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	4.7B 5.3H	15B	2.99H	0.78	0.03	0.4	0.86J		4.2D	
0.1 - 0.4	5.2B 6.2H	2B	0.54H	0.59	<0.02	0.08	0.08J		1.22D	
0.4 - 0.6	5.4B 6.3H	2B	0.39H	0.62	<0.02	0.08	0.03J		1.1D	
0.6 - 0.7	5.6B 6.4H	3B	0.49H	0.85	<0.02	0.11	0.02J		1.46D	
0.7 - 1	5.9B 6.3H	4B	0.54H	1.4	<0.02	0.16	0.03J		2.11D	
1 - 1.3	5.9B 6.1H	6B	0.46H	2	<0.02	0.19	0.03J		2.66D	

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		230B	0.185E			4.8
0.1 - 0.4		0.24D		34B	0.023E			1.7
0.4 - 0.6		0.15D		32B	0.021E			1.5
0.6 - 0.7		0.16D		36B	0.025E			1.4
0.7 - 1		0.14D		48B	0.018E			4.2
1 - 1.3		0.08D		32B	0.01E			5.8

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
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)