Project Name: **Wellington Blackwood land resources survey**
Project Code: **WBW** **Site ID:** **0938** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By: Peter Tille
Date Desc.: 08/11/92
Map Ref.:
Northing/Long.: 6312267 AMG zone: 50
Easting/Lat.: 424613 Datum: AGD84
Locality:
Elevation: No Data
Rainfall: No Data
Runoff: No Data
Drainage: No Data

Geology

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

Landform

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

Surface Soil Condition

Erosion

Soil Classification

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

Site Disturbance

Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation

Surface Coarse Fragments

Profile Morphology

A1 0 - 0.1 m Dark brown (7.5YR3/2-Moist); ; Sandy loam; Weak grade of structure, ; Moderate grade of structure; Sandy (grains prominent) fabric; Moist; Field pH 6 (Raupach);

A3 0.1 - 0.3 m Strong brown (7.5YR4/6-Moist); ; Clayey fine sand; Weak grade of structure; Moderate grade of structure; Sandy (grains prominent) fabric; Moist;

B11 0.3 - 0.5 m Strong brown (7.5YR5/8-Moist); , 0-2% , Faint; Sandy loam; Weak grade of structure, ; Moderate grade of structure; Sandy (grains prominent) fabric; Moist; Field pH 6 (Raupach);

B12 0.5 - 0.7 m Brownish yellow (10YR6/6-Moist); , 2-10% , Faint; Sandy clay loam; Weak grade of structure, ; Moderate grade of structure; Sandy (grains prominent) fabric; Moist; Field pH 6 (Raupach);

B13 0.7 - 0.9 m Yellow (10YR7/6-Moist); Mottles, 10YR58, 20-50% , Distinct; Sandy clay loam; Moderate grade of structure; Sandy (grains prominent) fabric; Moist; 20-50%, medium gravelly, 6-20mm, subangular, Ironstone, coarse fragments; Field pH 5.5 (Raupach);

B21 0.9 - 1.2 m Light reddish brown (2.5YR7/4-Moist); , 10YR58, 20-50% , Distinct; Sandy light clay; Moderate grade of structure; Sandy (grains prominent) fabric; Moist; 50-90%, medium gravelly, 6-20mm, subangular, Ironstone, coarse fragments; Field pH 5.5 (Raupach);

B22 1.2 - 1.5 m Pale red (2.5YR7/2-Moist); , 10YR58, 20-50% , Distinct; Sandy light clay; Moderate grade of structure; Sandy (grains prominent) fabric; Moist; 20-50%, medium gravelly, 6-20mm, subangular, Ironstone, coarse fragments; Field pH 5.5 (Raupach);

Morphological Notes

A1	high omc, sand fraction f-m
A3	few pores, sand fraction f-m
B11	few pores, sand fraction f-m
B12	pores common, sand fraction f-m
B13	cemented in places, sand fraction m-k

B21	cemented in places, sand fraction m-k
B22	cemented in places, sand fraction m-k

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.1	5B 5.8H	5B	5.18H	1.18	0.24	0.14	0.37J		6.74D	
0.1 - 0.3	5.1B 6.2H	2B	0.76H	0.43	0.16	0.06	0.09J		1.41D	
0.3 - 0.5	5B 5.8H	2B	0.26H	0.63	0.05	0.06	0.06J		1D	
0.5 - 0.7	5B 5.8H	2B	0.25H	0.81	0.04	0.05	0.05J		1.15D	
0.7 - 0.9	5.2B 5.8H	2B	0.3H	1.24	0.02	0.08	0.02J		1.64D	
0.9 - 1.2	5.1B 5.7H	3B	0.08H	1.76	<0.02	0.15	0.02J		2D	
1.2 - 1.5	4.8B 5.6H	3B	0.09H	1.71	0.02	0.18	0.04J		2D	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis			
		Clay						GV	CS	FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.1 5		4.16D		240B	0.266E						7.3
0.1 - 0.3 10.1		0.59D		46B	0.043E						4.2
0.3 - 0.5 16.9		0.24D		46B	0.03E						2.9
0.5 - 0.7 21.9		0.22D		38B	0.029E						2.4
0.7 - 0.9 28.4		0.16D		42B	0.027E						2.8
0.9 - 1.2 36.6		0.12D		35B	0.024E						2.9
1.2 - 1.5 35.5		0.11D		32B	0.018E						3.2

Laboratory Analyses Completed for this profile

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