Project Name: Wellington Blackwood land resources survey

Project Code: WBW Observation ID: 1 Site ID: 0993

Agency Name: Agriculture Western Australia

Site Information

Desc. By: Peter Tille Locality:

Date Desc.: Elevation: No Data 19/11/92 Map Ref.: Rainfall: No Data

Northing/Long.: 6259898 AMG zone: 50 Runoff: No Data Easting/Lat.: 459517 Datum: AGD84 Drainage: No Data

Geology

ExposureType: Auger boring Conf. Sub. is Parent. Mat.: No Data Geol. Ref.: No Data **Substrate Material:** No Data

Landform

Rel/Slope Class: Undulating plains <9m 3-10% Pattern Type: No Data Relief: No Data Morph. Type: Upper-slope Elem. Type: Breakaway Slope Category: No Data Slope: 5 % Aspect: No Data

Surface Soil Condition Firm

Erosion

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Basic Ferric Grey Chromosol **Principal Profile Form:** N/A ASC Confidence: **Great Soil Group:** N/A

Analytical data are incomplete but reasonable confidence.

Site Disturbance

Vegetation

Surface Coarse Fragments ; 20-50%, , subrounded, Ironstone

Profile Morphology

0 - 0.05 m Very dark grey (10YR3/1-Moist); ; Loamy fine sand; Weak grade of structure, ; Sandy (grains prominent)

fabric; Dry; 50-90%, medium gravelly, 6-20mm, subrounded, Ironstone, coarse fragments;

0.05 - 0.85 m Yellowish brown (10YR5/4-Moist); ; Fine sandy loam; Single grain grade of structure, **A3**

Granular; Sandy (grains prominent) fabric; Dry; 50-90%, medium gravelly, 6-20mm, subrounded,

Ironstone, coarse fragments; Gradual change to -

B1 0.85 - 1.1 m Yellowish brown (10YR5/4-Moist); ; Clayey fine sand; Single grain grade of structure, Granular; Sandy

(grains prominent) fabric; 50-90%, medium gravelly, 6-20mm, subangular, Ironstone,

coarse fragments; Clear change to -

B21 1.1 - 1.45 m Yellow (10YR7/6-Moist); ; Sandy loam; Massive grade of structure; 50-90%, medium

gravelly, 6-20mm, angular, Ironstone, coarse fragments; Diffuse, Wavy change to -

B22 1.45 - 1.6 m Light grey (5YR7/1-Moist); , 7.5YR46, 20-50%; Heavy clay; Massive grade of structure,

Polyhedral;

Smooth-ped fabric; 2-10%, Ironstone, coarse fragments;

ВЗ 1.8 - m White (10YR8/0-Moist); , 2-10%; Heavy clay;

Morphological Notes

A3 Sample Laver 2/3 B1

small chunks of below layer STRUCTURE INDURATED **B21**

Clay very hard - almost stone in places. Soil GDS

Observation Notes

Site Notes

A few laterite boondies down slope.SOIL TYPE GDS

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Laboratory Test Results:

Depth	рН	1:5 EC	Ca Ex	changeab Mg	ole Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m		9			(+)/kg			%
0 - 0.1	4.9B 5.7H 4.9B 5.7H	7B	7.68H 7.68H	0.82 0.82	0.43 0.43	0.11 0.11	0.48J 0.48J		9.04D 9.04D	
0 - 0.1	4.9B 5.7H 4.9B 5.7H	7B	7.68H 7.68H	0.82 0.82	0.43 0.43	0.11 0.11	0.48J 0.48J		9.04D 9.04D	
0.1 - 0.4	5.4B 6.5H	2B	2.01H	0.41	0.22	0.02	0.05J		2.66D	
0.4 - 0.8	5.5B 6.7H	2B	1.03A	0.49	0.24	0.03			1.79D	
0.85 - 1.05	5.8B 6.7H	2B	1.16A	1.09	0.18	0.05			2.48D	
1.1 - 1.4	4.5B 5.2H	4B	0.56H	1.67	0.08	0.11	0.34J		2.42D	
1.45 - 1.6	4.1B 4.8H	4B	0.24H	2.39	0.03	0.24	0.6J		2.9D	
1.8 - 2	4B 5.2H	5B	0.2H	3.81	<0.02	0.54	0.76J		4.56D	

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle CS	Size FS	Analysis Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.1 2.2		6.06D		630B	0.396E						6.5
		6.06D 2.2		630B	0.396E						6.5
0 - 0.1 2.2		6.06D		630B	0.396E						6.5
2.2		6.06D 2.2		630B	0.396E						6.5
0.1 - 0.4 6.4		0.57D		90B	0.036E						4.9
0.4 - 0.8 6.9		0.26D		67B	0.02E						4.6
0.85 - 1.05		0.25D		86B	0.018E						4
8.5 1.1 - 1.4		0.11D		58B	0.01E						7.4
33.1 1.45 - 1.6		0.12D		29B	0.012E						6.8
69.1 1.8 - 2 40.8		0.15D		25B	0.014E						18.5

Laboratory Analyses Completed for this profile

15_NR_BSa 15_NR_CMR 15A1_CA for soluble	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available Exchangeable bases (Ca/Mg ratio) - Not recorded Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_CEC 15A1_K for soluble	salts Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_MG for soluble	salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment

15A1_NA for soluble	salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15E1_AL	Exchangeable AI - 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

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Project Code: WBW Site ID: 0993 Observation 1

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15E1 MG Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts 15E1_MN 15E1_NA Exchangeable bases (Mn2+) by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts 15J_BASES Sum of Bases

15L1_a Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using

Sum of Cations

and measured clay

15N1_a

Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations 15N1_b

3 NR Electrical conductivity or soluble salts - Not recorded

pH of soil - Not recorded 4_NR

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
Total Phosphorus (ppm) - semimicro kjeldahl, automated colour 9A3

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) 75 to 106u particle size analysis, (method not recorded) P10_75_106

P10_NR_C P10_NR_Saa Clay (%) - Not recorded
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) 600 to 1000u particle size analysis, (method not recorded) P106001000