

Project Name: Tonebridge land resources survey
Project Code: TON **Site ID:** 0788 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Angela Stuart-Street	Locality:	
Date Desc.:	10/12/98	Elevation:	No Data
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6205476 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	491821 Datum: AGD84	Drainage:	Well drained

Geology

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

Landform

Rel/Slope Class: Gently undulating rises 9-30m 1-3% **Pattern Type:** Rises

Morph. Type:	Mid-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	2 %	Aspect:	90 degrees

Surface Soil Condition Firm

Erosion (wind); (scald) (sheet) (wave) (rill) (mass)
(gully) (stbank) (tunnel)

Soil Classification

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

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

Vegetation

Surface Coarse Fragments No surface coarse fragments

Profile Morphology

A1p	0 - 0.15 m	Black (10YR2/1-Moist); , 0-0% ; Sandy loam; Single grain grade of structure; Sandy (grains prominent)
Ironstone, coarse		fabric; Dry; Loose consistence; 20-50%, medium gravelly, 6-20mm, subrounded, fragments; Water repellent; Clear, Wavy change to -
B1c	0.15 - 0.35 m	Yellowish brown (10YR5/8-Moist); , 0-0% ; Clay loam, sandy; Single grain grade of structure; Sandy
subrounded, Ironstone,		(grains prominent) fabric; Moderately moist; 20-50%, medium gravelly, 6-20mm, coarse fragments; Clear, Smooth change to -
B21	0.35 - 0.55 m	Brownish yellow (10YR6/8-Moist); , 2.5YR58, 2-10% , 0-5mm, Distinct; Light clay;
Massive grade of		structure; Sandy (grains prominent) fabric; Moderately moist; Clear, Smooth change to -
B22t	0.55 - 0.8 m	Brownish yellow (10YR6/8-Moist); , 2.5YR48, 20-50% , 0-5mm, Distinct; Medium clay;
Moderate grade		of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Clear, Wavy change to -
B31	0.8 - 1.15 m	White (10YR8/1-Moist); , 2.5YR48, 10-20% , 0-5mm, Prominent; , 10YR58, 2-10% , 0-5mm, Distinct;
Moderately moist;		Light clay; Moderate grade of structure, <2 mm, Angular blocky; Smooth-ped fabric; Gradual, Smooth change to -
B32	1.15 - 1.3 m	White (10YR8/1-Moist); , 2.5Y72, 2-10% , 0-5mm, Distinct; , 10YR66, 10-20% , 0-5mm,
Distinct; Light		clay; Weak grade of structure, <2 mm, Angular blocky; Rough-ped fabric; Moderately moist;

Morphological Notes

B21 Soil very porous

Observation Notes

Site Notes

on midslope of rise.

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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 - 0.15	4.6B 5.5H	5B	6.33H	0.71	0.05	0.29	1.45J		7.38D	
0.15 - 0.35	5.7B 6.8H	2B	3.66A	1.66	0.05	15			20.37D	
0.35 - 0.55	6B 6.8H	4B	2.02A	2.71	0.02	0.14			4.89D	
0.55 - 0.8	6B 6.5H	4B	0.7A	3.58	0.02	0.2			4.5D	
0.8 - 1.15	5.2B 5.8H	6B	0.37H	3.47	<0.02	0.33			4.18D	
1.15 - 1.3	4.5B 5.2H	10B	0.27H	3.39	<0.02	0.68	0.3J		4.35D	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size	Analysis
m	%	Clay %	mg/kg	%	%	%	Mg/m3	GV CS FS	Silt
0 - 0.15		6.65D		450B					10.3
3.6									
0.15 - 0.35		1.03D		79B					9.9
18.8									
0.35 - 0.55		0.39D		42B					7.8
61.8									
0.55 - 0.8		0.18D		40B					8.6
72									
0.8 - 1.15		0.17D		48B					8.7
66.9									
1.15 - 1.3		0.13D		28B					20.8
51.1									

Laboratory Analyses Completed for this profile

15_NR_AL	Aluminium Cation - meq per 100g of soil - Not recorded
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
15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15_NR_MN	Exchangeable bases (Mn++) - meq per 100g of soil - Not recorded
15A1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_CEC	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_MG	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_NA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
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
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
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

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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
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)