

Project Name: Tonebridge land resources survey
Project Code: TON **Site ID:** 0790 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Angela Stuart-Street	Locality:	
Date Desc.:	11/12/98	Elevation:	No Data
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6195457 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	479147 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:	Lower-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	3 %	Aspect:	180 degrees

Surface Soil Condition Soft

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

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Basic Regolithic Yellow-Orthic Tenosol		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 2-10%, medium gravelly, 6-20mm, subrounded, Ironstone; No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Dark greyish brown (10YR4/2-Moist); ; Loamy fine sand; Single grain grade of structure; Sandy (grains prominent) fabric; Moist; Loose consistence; Abrupt, Smooth change to -
A21	0.1 - 0.2 m	Brownish yellow (10YR6/6-Moist); , 10YR68, 2-10% , 0-5mm, Faint; Loamy fine sand; of structure; Sandy (grains prominent) fabric; Moist; Loose consistence; 2-10%, fine gravelly, 2-6mm, subrounded, Ironstone, coarse fragments; Clear, Wavy change to -
A22	0.2 - 0.6 m	Yellow (10YR7/8-Moist); , 10YR68, 2-10% , 0-5mm, Faint; Loamy fine sand; Single grain grade of structure; Sandy (grains prominent) fabric; Moderately moist; Loose consistence; 2-10%, fine gravelly, 2-6mm, subrounded, Ironstone, coarse fragments; Gradual, Smooth change to -
B21	0.6 - 0.9 m	Brownish yellow (10YR6/8-Moist); , 7.5YR68, 10-20% , 15-30mm, Faint; , 2.5Y74, 10-20% , 0-5mm, Faint; Clayey fine sand; Single grain grade of structure; Sandy (grains prominent) fabric; Moderately moist; Loose consistence; 2-10%, fine gravelly, 2-6mm, subrounded, Ironstone, coarse fragments; Clear, Smooth change to -
B22	0.9 - 1.3 m	Brownish yellow (10YR6/8-Moist); , 5YR58, 10-20% , 0-5mm, Distinct; Clayey fine sand; grade of structure; Sandy (grains prominent) fabric; Moist; Loose consistence; 2-10%, fine gravelly, 2-6mm, subrounded, Ironstone, coarse fragments; Common (10 - 20 %), Unidentified, Coarse (6 - 20 mm), Soft segregations;

Morphological Notes

Observation Notes

Site Notes

Site on base of slope, adjacent to drainage depression.

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Na	Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Cmol (+)/kg	Acidity			%
0 - 0.1	4.5B 5.5H	4B	2.15H	0.18	0.06	0.09	0.52J		2.48D	
0.1 - 0.2	4.7B 5.7H	2B	0.6H	0.07	0.02	0.05	0.11J		0.74D	
0.2 - 0.6	5.4B 6.6H	2B	0.49H	0.23	<0.02	0.03			0.76D	
0.6 - 0.9	5.6B 6.6H	1B	0.29A	0.45	0.03	0.04			0.81D	
0.9 - 1.3	5.8B 6.4H	2B	0.28H	0.69	0.03	0.1			1.1D	

Depth	CaCO ₃	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m ³	GV CS FS Silt
0 - 0.1		1.64D		95B				2.2
0.1 - 0.2		0.24D		25B				1.5
0.2 - 0.6		0.11D		17B				1.3
0.6 - 0.9		0.07D		24B				1.2
0.9 - 1.3		0.08D		28B				1.4

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 (Ca ²⁺ ,Mg ²⁺ ,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 (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble salts	
15A1_MG	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble salts	
15A1_NA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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 (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) by compulsive exchange, no pretreatment for soluble salts
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 (Mn ²⁺) 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
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

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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)