

Project Name: Tonebridge land resources survey
Project Code: TON **Site ID:** 0794 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Angela Stuart-Street	Locality:	
Date Desc.:	09/12/98	Elevation:	No Data
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6227497 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	477251 Datum: AGD84	Drainage:	Moderately 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 plains <9m 1-3% **Pattern Type:** Alluvial plain

Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Plain	Slope Category:	No Data
Slope:	1 %	Aspect:	0 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 Mottled-Mesonatric Grey Sodosol		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; No surface coarse fragments

Profile Morphology

A1p	0 - 0.1 m	Dark grey (10YR4/1-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Loose consistence; Water repellent; Sharp, Wavy change to -
A21	0.1 - 0.2 m	Brown (10YR5/3-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Sandy fabric; Dry; Loose consistence; Abrupt, Tongued change to -
A22e	0.2 - 0.3 m	Light yellowish brown (10YR6/4-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Sandy (grains prominent) fabric; Moderately moist; Loose consistence; 2-10%, fine gravelly, 2-6mm, subrounded, Ironstone, coarse fragments; Abrupt, Irregular change to -
B1e	0.3 - 0.4 m	Pale brown (10YR6/3-Moist); , 0-0% ; Coarse sandy clay loam; Massive grade of (grains prominent) fabric; Moderately moist; Very weak consistence; 20-50%, fine gravelly, 2-6mm, subrounded, Ironstone, coarse fragments; 20-50%, medium gravelly, 6-20mm, coarse fragments; Abrupt, Smooth change to -
B21t	0.4 - 0.46 m	Yellow (10YR7/6-Moist); , 10YR68, 10-20% , 0-5mm, Distinct; Light clay; Weak grade of structure, <2 mm, Subangular blocky; Rough-ped fabric; Moderately moist; Weak consistence; 20-50%, fine gravelly, 2-6mm, subrounded, Ironstone, coarse fragments; Abrupt, Tongued change to -
B22t	0.46 - 0.75 m	Very pale brown (10YR7/4-Moist); , 10YR68, 20-50% , 0-5mm, Distinct; Light clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Rough-ped fabric; Moderately moist; Weak consistence; 10-20%, fine gravelly, 2-6mm, subrounded, Ironstone, coarse fragments; 10-20%, medium gravelly, 6-20mm, subrounded, Ironstone, coarse fragments; Gradual, Irregular change to -

B3t 0.75 - 1 m Light grey (10YR7/1-Moist); , 10YR68, 20-50% , 0-5mm, Distinct; , 2.5YR48, 10-20% , 0-5mm,
 Prominent; Sandy light clay; Weak grade of structure, 2-5 mm, Subangular blocky;
 Rough-ped fabric;
 Moderately moist; Firm consistence; 10-20%, fine gravelly, 2-6mm, subrounded,
 Ironstone, coarse fragments; 10-20%, medium gravelly, 6-20mm, subrounded, Ironstone, coarse fragments;

Morphological Notes

Observation Notes

Site Notes

Pit site on broad flat alluvial plain.

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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	4.4B 5.1H	32B	1.12H	0.81	0.08	0.47	0.41J		2.48D	
0.1 - 0.2	4.4B 5.5H	11B	0.22H	0.3	0.1	0.4	0.07J		1.02D	
0.2 - 0.3	4.5B 5.8H	6B	0.21H	0.47	0.06	0.25	0.15J		0.99D	
0.3 - 0.4	5.3B 6.4H	9B	0.33H	0.97	0.04	0.47	0.05J		1.81D	
0.4 - 0.46	5.9B 6.4H	26B	0.68H	2.93	0.04	0.94			4.59D	
0.46 - 0.75	6.1B 6.4H	52B	0.53H	3.69	<0.02	1.22			5.45D	
0.75 - 1	6.2B 6.4H	48B	0.28H	2.19	<0.02	1.07			3.55D	

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 - 0.1		1.56D		200B				3.1
0.1 - 0.2		0.32D		72B				2.4
0.2 - 0.3		0.16D		47B				2.3
0.3 - 0.4		0.19D		48B				2.8
0.4 - 0.46		0.23D		59B				3.5
0.46 - 0.75		0.12D		57B				5.2
0.75 - 1		0.07D		64B				5.3

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_CMRR 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
 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
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_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
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

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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)