Project Name: **Tonebridge land resources survey**
Project Code: **TON** **Site ID:** **0793** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Angela Stuart-Street	**Locality:**	
Date Desc.:	07/12/98	**Elevation:**	No Data
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6223121 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	492748 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 rises 9-30m 1-3% **Pattern Type:** Rises

Morph. Type:	Mid-slope	**Relief:**	No Data
Elem. Type:	Hillslope	**Slope Category:**	No Data
Slope:	3 %	**Aspect:**	0 degrees

Surface Soil Condition

Firm

Erosion

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

Soil Classification

Australian Soil Classification:
Basic Petroferric Sequi-Nodular Tenosol

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

50-90%, medium gravelly, 6-20mm, subrounded, Ironstone; 50-90%, cobbly, 60-200mm, subrounded, Ferricrete

Profile Morphology

A1c 0 - 0.1 m Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Loamy fine sand; Single grain grade of structure; Loose consistence; 20-50%, fine gravelly, 2-6mm, subrounded, Ironstone, coarse fragments; 10-20%, medium gravelly, 6-20mm, subrounded, Ironstone, coarse fragments; Water repellent; Field pH 6.4 (pH meter); Sharp change to -

B21cw 0.1 - 0.5 m Brownish yellow (10YR6/6-Moist); , 0-0% ; Loamy fine sand; Single grain grade of structure; Loose consistence; 50-90%, medium gravelly, 6-20mm, subrounded, Ironstone, coarse fragments; Water repellent; Field pH 6.6 (pH meter); Diffuse change to -

B22cw 0.5 - 1 m Brownish yellow (10YR6/6-Moist); , 0-0% ; Single grain grade of structure; Loose consistence; 50-90%, medium gravelly, 6-20mm, subrounded, Ironstone, coarse fragments; Field pH 6.7 (pH meter); Diffuse change to -

B3c 1 - 1.1 m Very pale brown (10YR7/4-Moist); , 0-0% ; Single grain grade of structure; Loose consistence; 50-90%, medium gravelly, 6-20mm, subangular tabular, Ironstone, coarse fragments; Field pH 6.4 (pH meter); Abrupt change to -

Ccm 1.1 - m ; Ferricrete, Massive;

Morphological Notes

A1c	Texture - qual: Gravelly.
B22cw	(LFS matrix)
B3c	(LFS matrix)
Ccm	Ferricrete layer.

Observation Notes

Site Notes

Site close to upperslope of rise. Abundant ferricrete rocks & boulders on paddock surface. Ferricrete duricrust at

110 cm. Root remnants
through profile.

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations Ca	Mg	K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.1	5.4B 6.1H	16B	11.32H	2.61	0.76	0.33	0.04J		15.02D	
0.1 - 0.5	5B 6.1H	2B	1.09H	0.45	0.06	0.02	0.05J		1.62D	
0.5 - 1	5.3B 6.6H	1B	1.1A	0.82	0.09	0.04			2.05D	
1 - 1.1	5.3B 6.4H	1B	0.54H	0.75	0.02	0.06			1.37D	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis GV	CS	FS	Silt
		Clay									
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.1		4.95D		480B							2.4
1.7											
0.1 - 0.5		0.4D		46B							2.1
6.8											
0.5 - 1		0.37D		36B							3.5
9.6											
1 - 1.1		0.23D		33B							3.1
8.9											

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
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)

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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)