

**Project Name:** Tonebridge land resources survey  
**Project Code:** TON **Site ID:** 0669 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

**Desc. By:** Angela Stuart-Street  
**Date Desc.:** 29/10/98  
**Map Ref.:**  
**Northing/Long.:** 6222045 AMG zone: 50  
**Easting/Lat.:** 491212 Datum: AGD84  
**Locality:**  
**Elevation:** No Data  
**Rainfall:** No Data  
**Runoff:** No Data  
**Drainage:** Well drained

#### Geology

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

#### Landform

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

**Morph. Type:** Lower-slope  
**Elem. Type:** Hillslope  
**Slope:** 2 %  
**Relief:** No Data  
**Slope Category:** No Data  
**Aspect:** 180 degrees

#### Surface Soil Condition Soft

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

#### Soil Classification

**Australian Soil Classification:** Mesotrophic Mottled-Subnatic Yellow Sodosol  
**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** No surface coarse fragments

#### Profile Morphology

A11	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); ; Loamy sand; Moderately moist; Field pH 6.4 (pH meter);
		Clear change to -
A21	0.1 - 0.25 m	Light brownish grey (10YR6/2-Moist); ; Sand; Moderately moist; Field pH 6.2 (pH meter);
Gradual		change to -
A22	0.25 - 0.45 m	Yellowish brown (10YR5/4-Moist); ; Clayey sand; Moderately moist; Field pH 6.2 (pH meter); Clear
		change to -
B21	0.45 - 0.5 m	Brownish yellow (10YR6/8-Moist); ; Sandy light clay; Moderately moist; 20-50%, fine gravelly, 2-6mm,
		subrounded, Ironstone, coarse fragments; Field pH 5.8 (pH meter); Clear change to -
B22t	0.5 - 0.7 m	Brownish yellow (10YR6/8-Moist); , 10YR72; Sandy light clay; Moderately moist; Field pH 5.7 (pH meter);

#### Morphological Notes

#### Observation Notes

#### Site Notes

Site on gentle slope. Sample collected for sodicity analysis.

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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				%
0.5 - 0.7	5.3B	6B	0.25H	1.39	0.02	0.24			1.9D	

5.7H

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0.5 - 0.7 30.5									65l		4.5

**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_MN	Exchangeable bases (Mn++) - meq per 100g of soil - Not recorded
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_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
4B1	pH of 1:5 soil/0.01M calcium chloride extract - direct
P10_NR_C	Clay (%) - Not recorded
P10_NR_S	Sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded