Project Name: **Tonebridge land resources survey**
Project Code: **TON** **Site ID:** **0148** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Henry Smolinski	**Locality:**	
Date Desc.:	13/02/97	**Elevation:**	No Data
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6199027 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	490582 Datum: AGD84	**Drainage:**	No Data

Geology

ExposureType:	Existing vertical exposure	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	No Data	**Substrate Material:**	No Data

Landform

Rel/Slope Class:	No Data	**Pattern Type:**	Plain
Morph. Type:	No Data	**Relief:**	No Data
Elem. Type:	Hillslope	**Slope Category:**	No Data
Slope:	2 %	**Aspect:**	No Data

Surface Soil Condition

Erosion

Soil Classification

Australian Soil Classification:
Ferric Mottled-Subnatric Brown Sodosol

ASC Confidence:
Confidence level not specified

Mapping Unit: N/A
Principal Profile Form: N/A
Great Soil Group: N/A

Site Disturbance

Vegetation

Surface Coarse Fragments

No surface coarse fragments

Profile Morphology

A11 0 - 0.1 m Very dark greyish brown (10YR3/2-Moist); ; Loamy fine sand; Single grain grade of structure; Dry; Field pH 6 (Raupach); Clear change to -

A12 0.1 - 0.5 m Yellowish brown (10YR5/5-Moist); ; Loamy fine sand; Single grain grade of structure; Dry; Field pH 6.2 (Raupach); Abrupt change to -

B2 0.5 - 0.7 m Strong brown (7.5YR5/6-Moist); , 10YR68, 2-10% ; , 7.5YR68, 2-10% ; Light clay; <2 mm, Angular blocky; 50-100 mm; Dry; 20-50%, medium gravelly, 6-20mm, rounded, Ironstone, coarse fragments; Field pH 6.5 (Raupach);

Morphological Notes

A11	Mostly Bog Iron Ore gravel
A12	Mostly Bog Iron Ore gravel
B2	Mostly Bog Iron Ore gravel

Observation Notes

Site Notes

Bog Iron Ore stones and boulders in paddock

Project Name: Tonebridge land resources survey
Project Code: TON **Site ID:** 0148 **Observation** 1
Agency Name: Agriculture Western Australia

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	5.2B 6.3H	8B	8.38H	2.56	0.39	0.28	0.1J		11.61D	
0 - 0.1	5.2B 6.3H	8B	8.38H	2.56	0.39	0.28	0.1J		11.61D	
0 - 0.1	5.2B 6.3H	8B	8.38H	2.56	0.39	0.28	0.1J		11.61D	
0.1 - 0.5	5.3B 6.9H	2B	1.48A	0.87	0.18	0.14			2.67D	
0.1 - 0.5	5.3B 6.9H	2B	1.48A	0.87	0.18	0.14			2.67D	
0.1 - 0.5	5.3B 6.9H	2B	1.48A	0.87	0.18	0.14			2.67D	
0.5 - 0.7	5.8B 6.3H	14B	1.68H	2.13	0.11	0.56			4.48D	
0.5 - 0.7	5.8B 6.3H	14B	1.68H	2.13	0.11	0.56			4.48D	
0.5 - 0.7	5.8B 6.3H	14B	1.68H	2.13	0.11	0.56			4.48D	
0.5 - 0.7	5.8B 6.3H	14B	1.68H	2.13	0.11	0.56			4.48D	

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 6		3.98D		140B	0.174E						5.9
0 - 0.1 6		3.98D		140B	0.174E						5.9
0 - 0.1 6		3.98D		140B	0.174E						5.9
0.1 - 0.5 6.3		0.7D		56B	0.034E						4.6
0.1 - 0.5 6.3		0.7D		56B	0.034E						4.6
0.1 - 0.5 6.3		0.7D		56B	0.034E						4.6
0.5 - 0.7 54.1		0.3D		62B	0.014E						7.8
0.5 - 0.7 54.1		0.3D		62B	0.014E						7.8
0.5 - 0.7 54.1		0.3D		62B	0.014E						7.8
0.5 - 0.7 54.1		0.3D		62B	0.014E						7.8

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_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

Project Name: **Tonebridge land resources survey**
Project Code: **TON** **Site ID:** **0148** **Observation** **1**
Agency Name: **Agriculture Western Australia**

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
7A1	Total nitrogen - semimicro Kjeldahl, steam distillation
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_gt2m	> 2mm 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)