**Project Name:** **Tonebridge land resources survey**
**Project Code:** **TON** **Site ID:** **0130** **Observation ID:** **1**
**Agency Name:** **Agriculture Western Australia**

## Site Information

| | | | |
|---|---|---|---|
| **Desc. By:** | Henry Smolinski | **Locality:** | |
| **Date Desc.:** | 12/02/97 | **Elevation:** | No Data |
| **Map Ref.:** | | **Rainfall:** | No Data |
| **Northing/Long.:** | 6228411 AMG zone: 50 | **Runoff:** | No Data |
| **Easting/Lat.:** | 471811 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:** | Hills |
| **Morph. Type:** | No Data | **Relief:** | No Data |
| **Elem. Type:** | Plain | **Slope Category:** | No Data |
| **Slope:** | 4 % | **Aspect:** | No Data |

## Surface Soil Condition

## Erosion

## Soil Classification

**Australian Soil Classification:**
Melanic-Mottled Mesotrophic Yellow Chromosol

**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

## Profile Morphology

A11 0 - 0.2 m Very dark greyish brown (10YR3/2-Moist); ; Clayey coarse sand; Strong grade of structure, Granular; 2-10%, fine gravelly, 2-6mm, rounded, Ironstone, coarse fragments; Field pH 6.5 (Raupach); Clear, Smooth change to -

A12 0.2 - 0.5 m Yellowish brown (10YR5/4-Moist); ; Clayey coarse sand; Weak grade of structure, Granular; 2-10%, fine gravelly, 2-6mm, rounded, Ironstone, coarse fragments; Field pH 6.5 (Raupach);

B2t 0.5 - 0.75 m Pale brown (10YR6/3-Moist); , 2.5YR48, 10-20% ; , 10YR58, 10-20% ; Light clay; Strong grade of structure, Angular blocky; Field pH 7 (Raupach);

## Morphological Notes

## Observation Notes

## Site Notes

Sampled

**Project Name:** Tonebridge land resources survey
**Project Code:** TON **Site ID:** 0130 **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 - 0.2 | 5.5B 6.7H | 4B | 4.48H | 2.73 | 0.29 | 0.18 | 0.03J | | 7.68D | |
| 0 - 0.2 | 5.5B 6.7H | 4B | 4.48H | 2.73 | 0.29 | 0.18 | 0.03J | | 7.68D | |
| 0 - 0.2 | 5.5B 6.7H | 4B | 4.48H | 2.73 | 0.29 | 0.18 | 0.03J | | 7.68D | |
| 0.2 - 0.5 | 5.4B 6.9H | 1B | 0.61A | 1.07 | 0.09 | 0.1 | | | 1.87D | |
| 0.2 - 0.5 | 5.4B 6.9H | 1B | 0.61A | 1.07 | 0.09 | 0.1 | | | 1.87D | |
| 0.2 - 0.5 | 5.4B 6.9H | 1B | 0.61A | 1.07 | 0.09 | 0.1 | | | 1.87D | |
| 0.5 - 0.75 | 5.7B 6.5H | 4B | 1.17H | 4.06 | 0.12 | 0.2 | | | 5.55D | |
| 0.5 - 0.75 | 5.7B 6.5H | 4B | 1.17H | 4.06 | 0.12 | 0.2 | | | 5.55D | |
| 0.5 - 0.75 | 5.7B 6.5H | 4B | 1.17H | 4.06 | 0.12 | 0.2 | | | 5.55D | |
| 0.5 - 0.75 | 5.7B 6.5H | 4B | 1.17H | 4.06 | 0.12 | 0.2 | | | 5.55D | |

| Depth | CaCO3 | Organic C | Avail. P | Total P | Total N | Total K | Bulk Density | Particle Size Analysis GV | CS | FS | Silt |
|---|---|---|---|---|---|---|---|---|---|---|---|
| m | % | Clay % | mg/kg | % | % | % | Mg/m3 | | | % | |
| 0 - 0.2 6.8 | | 2.23D | | 140B | 0.118E | | | | | | 9.6 |
| 0 - 0.2 6.8 | | 2.23D | | 140B | 0.118E | | | | | | 9.6 |
| 0 - 0.2 6.8 | | 2.23D | | 140B | 0.118E | | | | | | 9.6 |
| 0.2 - 0.5 9.6 | | 0.23D | | 43B | 0.016E | | | | | | 5.2 |
| 0.2 - 0.5 9.6 | | 0.23D | | 43B | 0.016E | | | | | | 5.2 |
| 0.2 - 0.5 9.6 | | 0.23D | | 43B | 0.016E | | | | | | 5.2 |
| 0.5 - 0.75 51 | | 0.24D | | 62B | 0.019E | | | | | | 8 |
| 0.5 - 0.75 51 | | 0.24D | | 62B | 0.019E | | | | | | 8 |
| 0.5 - 0.75 51 | | 0.24D | | 62B | 0.019E | | | | | | 8 |
| 0.5 - 0.75 51 | | 0.24D | | 62B | 0.019E | | | | | | 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 |

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| | |
|---|---|
| 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 |
| 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) |