**Project Name:** **Tonebridge land resources survey**
**Project Code:** **TON** **Site ID:** **0149** **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.:** | 6204434 AMG zone: 50 | **Runoff:** | No Data |
| **Easting/Lat.:** | 490557 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:** | No Data |
| **Morph. Type:** | Upper-slope | **Relief:** | No Data |
| **Elem. Type:** | No Data | **Slope Category:** | No Data |
| **Slope:** | 8 % | **Aspect:** | No Data |

## Surface Soil Condition

## Erosion

## Soil Classification

**Australian Soil Classification:**
Ferric-Sodic Mesotrophic Red 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 - 0.1 m Dark brown (7.5YR3/2-Moist); ; Single grain grade of structure; 50-90%, coarse gravelly, 20-60mm, subangular, Ironstone, coarse fragments; Field pH 6 (Raupach); Clear change to -

A12 0.1 - 0.4 m Yellowish red (5YR5/6-Moist); ; Single grain grade of structure; 50-90%, coarse gravelly, 20-60mm, subangular, Ironstone, coarse fragments; Field pH 6 (Raupach); Clear change to -

B2 0.4 - 0.65 m Yellowish red (5YR5/8-Moist); ; Light clay; 2-5 mm, Angular blocky; Field pH 6.5 (Raupach); Clear change to -

BC 0.65 - 1.2 m Yellowish red (5YR5/6-Moist); , 10YR48, 10-20% ; , 10YR62, 10-20% ; Clay loam; Massive grade of structure, 200-500 mm, Angular blocky; Common (10 - 20 %), Ferruginous, , ; Field pH 4.5 (Raupach);

## Morphological Notes

## Observation Notes

## Site Notes

FH1-FH7--sampled

**Project Name:** Tonebridge land resources survey
**Project Code:** TON **Site ID:** 0149 **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 | 4.9B 5.8H | 7B | 16.35H | 3.28 | 0.11 | 0.24 | 0.58J | | 19.98D | |
| 0 - 0.1 | 4.9B 5.8H | 7B | 16.35H | 3.28 | 0.11 | 0.24 | 0.58J | | 19.98D | |
| 0 - 0.1 | 4.9B 5.8H | 7B | 16.35H | 3.28 | 0.11 | 0.24 | 0.58J | | 19.98D | |
| 0.1 - 0.4 | 5.1B 6.6H | 2B | 3.95H | 1.53 | 0.06 | 0.19 | 0.17J | | 5.73D | |
| 0.1 - 0.4 | 5.1B 6.6H | 2B | 3.95H | 1.53 | 0.06 | 0.19 | 0.17J | | 5.73D | |
| 0.1 - 0.4 | 5.1B 6.6H | 2B | 3.95H | 1.53 | 0.06 | 0.19 | 0.17J | | 5.73D | |
| 0.4 - 0.65 | 5.6B 6.3H | 6B | 1.61H | 2.34 | <0.02 | 0.22 | | | 4.18D | |
| 0.4 - 0.65 | 5.6B 6.3H | 6B | 1.61H | 2.34 | <0.02 | 0.22 | | | 4.18D | |
| 0.4 - 0.65 | 5.6B 6.3H | 6B | 1.61H | 2.34 | <0.02 | 0.22 | | | 4.18D | |
| 0.65 - 1.2 | 3.9B 4.1H | 52B | <0.02K | 1 | 0.04 | 1.21 | 1.93J | | 2.26D | |
| 0.65 - 1.2 | 3.9B 4.1H | 52B | <0.02K | 1 | 0.04 | 1.21 | 1.93J | | 2.26D | |
| 0.65 - 1.2 | 3.9B 4.1H | 52B | <0.02K | 1 | 0.04 | 1.21 | 1.93J | | 2.26D | |

| 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 4.2 | | 11.85D | | 280B | 0.401E | | | | | | 7.5 |
| 0 - 0.1 4.2 | | 11.85D | | 280B | 0.401E | | | | | | 7.5 |
| 0 - 0.1 4.2 | | 11.85D | | 280B | 0.401E | | | | | | 7.5 |
| 0.1 - 0.4 11.6 | | 2.01D | | 96B | 0.075E | | | | | | 11.4 |
| 0.1 - 0.4 11.6 | | 2.01D | | 96B | 0.075E | | | | | | 11.4 |
| 0.1 - 0.4 11.6 | | 2.01D | | 96B | 0.075E | | | | | | 11.4 |
| 0.4 - 0.65 57.3 | | 0.54D | | 59B | 0.021E | | | | | | 10.1 |
| 0.4 - 0.65 57.3 | | 0.54D | | 59B | 0.021E | | | | | | 10.1 |
| 0.4 - 0.65 57.3 | | 0.54D | | 59B | 0.021E | | | | | | 10.1 |
| 0.65 - 1.2 55.3 | | 0.21D | | 34B | 0.005E | | | | | | 12.5 |
| 0.65 - 1.2 55.3 | | 0.21D | | 34B | 0.005E | | | | | | 12.5 |
| 0.65 - 1.2 55.3 | | 0.21D | | 34B | 0.005E | | | | | | 12.5 |

## 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_CA | Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded |

| | |
|---|---|
| 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 |
| 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_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 |
| 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) |