

Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania  
 Project Code: SCEAM Site ID: N38 Observation ID: 1  
 Agency Name: TAS Department of Primary Industries and Water

**Site Information**

Desc. By: H. Hawkins  
 Date Desc.: 23/05/06  
 Map Ref.:  
 Northing/Long.:  
 Easting/Lat.:  
 Locality: Epping Forest  
 Elevation: 167 metres  
 Rainfall: 579  
 Runoff: Slow  
 Drainage: Imperfectly drained

**Geology**

Exposure Type: Soil pit  
 Geol. Ref.: Qa  
 Conf. Sub. is Parent. Mat.: Almost Certain  
 Substrate Material: Tertiary Sediments

**Land Form**

Rel/Slope Class: Level plain <9m <1%  
 Morph. Type: Flat  
 Elem. Type: Terrace plain  
 Slope: 2%  
 Pattern Type: Terraced land (alluvial)  
 Relief: No Data  
 Slope Category: Level  
 Aspect: No

Data

**Australian Soil Classification**

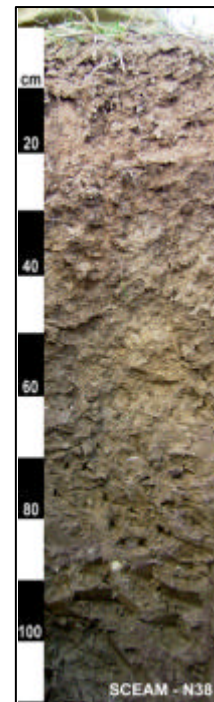
Hypocalcic Supracalcic Brown Sodosol Medium Non-gravelly Loamy Clayey Deep

**ASC Confidence:**

All necessary analytical data are available.

**Site Disturbance:** Cultivation. Irrigated, past or present

**Surface Coarse Fragments:** No surface coarse fragments



**Profile Morphology**

|      |               |   |
|------|---------------|---|
| Ap   | 0 - 0.11 m    | Brown (7.5YR4/3-Moist); Clay loam, fine sandy; Moderate grade of structure, 20-50 mm, Subangular blocky; Moderate grade of structure, 20-50 mm, Platy; Earthy fabric; Moist; Weak consistence; Moderately plastic; Normal plasticity; Slightly sticky; Many, very fine (0-1mm) roots; Abrupt, Wavy change to -  |
| A12  | 0.11 - 0.2 m  | Dark greyish brown (10YR4/2-Moist); Mechanical, 0-2%, 0-5mm, Faint, 10YR3/6; Mottles, 0-2%, 0-5mm, Faint, 10YR2/1; Loam (Heavy); Moderate grade of structure, 20-50 mm, Subangular blocky; Moderate grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Moist; Weak consistence; Moderately plastic; Normal plasticity; Slightly sticky; Common, very fine (0-1mm) roots; Sharp, Broken |
| A2   | 0.2 - 0.28 m  | Light brownish grey (10YR6/2-Moist); Mottles, 2-10%, 5-15mm, Distinct, 10YR3/6; Clay loam, sandy; Moderate grade of structure, 50-100 mm, Prismatic; Moderate grade of structure, 20-50 mm, Platy; Rough-ped fabric; Moist; Weak consistence; Very plastic; Normal plasticity; Moderately sticky; Common, very fine (0-1mm) roots; Sharp, Broken change to -  |
| B11t | 0.28 - 0.37 m | Greyish brown (2.5Y5/3-Moist); Mottles, 2-10%, 5-15mm, Faint, 10YR4/6; Medium clay; Strong grade of structure, 50-100 mm, Prismatic; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moist; Weak consistence; Moderately plastic; Normal plasticity; Moderately sticky; Common cutans, 10-50% of ped faces or walls coated, distinct; Few, very fine (0-1mm) roots; Abrupt, Wavy change to -                              |
| B12t | 0.37 - 0.65 m | Brown (10YR4/3-Moist); Medium clay; Strong grade of structure, 50-100 mm, Angular blocky; Smooth-ped fabric; Moist; Weak consistence; Moderately plastic; Normal plasticity; Moderately sticky; Common cutans, 10-50% of ped faces or walls coated, distinct; Very few (0 - 2 %), Manganiferous, Concretions, Fine (0 - 2 mm) segregations; Few, very fine (0-1mm) roots; Clear, Smooth change to -   |
| B21t | 0.65 - 0.8 m  | Yellowish brown (10YR5/4-Moist); Mottles, 20-50%, 15-30mm, Distinct, 10YR5/6; Medium heavy clay; Strong grade of structure, 100-200 mm, Angular blocky; Rough-ped fabric; Moist; Firm consistence; Very plastic; Normal plasticity; Very sticky; Very few (0 - 2 %), Calcareous, Nodules, Coarse (6 - 20 mm) segregations; Few, very fine (0-1mm) roots; Clear, Smooth change to -  |
| B22t | 0.8 - 1.1 m   | Greyish brown (2.5Y5/3-Moist); Mottles, 2-10%, 5-15mm, Faint, 10YR5/8; Medium heavy clay; Strong grade of structure, 100-200 mm, Angular blocky; Rough-ped fabric; Moist; Very firm consistence; Very plastic; Normal plasticity; Very sticky; Few (2 - 10 %), Calcareous, Soft segregations, Very coarse (20 - 60 mm) segregations; Few, very fine (0-1mm) roots;  |

**Chemistry Data**

|                | Organic C% | pH (H2O) | pH (CaCl2) | EC (dS/m) | Exchangeable Bases (meq/100g) |       |      |      | ECEC (meq/100g) | ESP % | Olsen P (mg/kg) | Total N % | Colwell_K (mg/kg) |
|----------------|------------|----------|------------|-----------|-------------------------------|-------|------|------|-----------------|-------|-----------------|-----------|-------------------|
|                |            |          |            |           | Ca                            | Mg    | Na   | K    |                 |       |                 |           |                   |
| N38 0 to 75 mm | 1.93       | 7.0      | 6.5        | 0.11      | 7.85                          | 1.15  | 0.16 | 0.61 | 9.83            | 1.63  | 46.60           | 0.15      | 260               |
| 150 to 225 mm  | 1.50       | 5.7      | 4.9        | 0.06      | 4.54                          | 0.91  | 0.16 | 0.34 | 6.10            | 2.62  | 45.20           | 0.12      | 163               |
| 230 to 280 mm  | 0.47       | 6.3      | 5.1        | 0.05      | 3.28                          | 2.52  | 0.33 | 0.25 | 6.47            | 5.10  | 8.90            | 0.04      | 106               |
| 300 to 370 mm  | 0.84       | 7.3      | 6.3        | 0.16      | 9.53                          | 15.98 | 2.48 | 0.75 | 28.76           | 8.62  | 3.50            | 0.08      | 281               |
| 400 to 600 mm  | 0.55       | 8.8      | 8.1        | 0.38      | 11.56                         | 15.49 | 4.12 | 0.69 | 31.86           | 12.93 | 2.20            | 0.05      | 256               |
| 680 to 780 mm  | 0.22       | 9.0      | 8.3        | 0.63      | 9.42                          | 13.67 | 5.65 | 0.58 | 29.32           | 19.27 | 1.80            | 0.04      | 228               |
| 850 to 105 mm  | 0.17       | 9.0      | 8.3        | 0.70      | 8.17                          | 16.57 | 6.81 | 0.68 | 32.51           | 20.03 | 2.00            | 0.03      | 253               |