Project Name:SCEAM - Soil Condition Evaluation & Monitoring Project, TasmaniaProject Code:SCEAMSite ID:S18Observation ID:1Agency Name:TAS Department of Primary Industries and Fisheries

Site Information

| Site Informatio Desc. By: Strathalon, near | <u>n</u> R. Moreton | Locality: | Owner: Walter Th | ompson. Property: | | | | |
|--|---|--|--|--|--|--|--|--|
| Date Desc.: Map Ref.: Northing/Long.: Easting/Lat.: <u>Geology</u> | 23/03/06 GPS S.A. Off 5273284 AMG zone: 55 524975 Datum: GDA94 | Elevation: Rainfall: Runoff: Drainage: | Brighton 99 metres 519 Very rapid Well drained | | | | | |
| ExposureType: Geol. Ref.: rock (unidentified) | Soil pit Jd | Conf. Sub. is Pare Substrate Materia | | certain or certain , 0.5 m deep,Igneous | | | | |
| <u>Landform</u> Rel/Slope Class: Morph. Type: Elem. Type: Slope: | Upper-slope Hillslope 20 % | Pattern Type: Relief: Slope Category: Aspect: | Low hills No Data Moderately incline 355 degrees | ed | | | | |
| Surface Soil Co | ondition Loose | | | | | | | |
| Erosion Parti | al, Minor (sheet) | | | | | | | |
| Soil Classificat | ion | | | | | | | |
| Australian Soil C Basic Paralithic Le | lassification: eptic Rudosol Non-gravelly Clay-loa | | ng Unit: pal Profile Form: | N/A N/A | | | | |
| ASC Confidence All necessary and Site Disturband Vegetation Surface Coarse | lytical data are available. Se | | Soil Group: | N/A | | | | |
| Profile Morpho | | ,, , | | | | | | |
| A11 0 - 0.03 structure, <2 | | ark brown (10YR3/3-M | oist); , 0-0% ; Clay | loam; Weak grade of | | | | |
| 60mm, | mm, Polyhedral; Earthy fat | | 0, 1, | | | | | |
| Smooth change | subangular, dispersed, Do to - | ieme, coarse hagmen | is, rew, very line (i | - mm) roots, clear, | | | | |
| A12 0.03 - 0. 20 mm, | 17 m (/-Moist); Dark brown (7.5 | YR3/2-Moist); , 0-0% ; | Clay loam; Weak g | grade of structure, 10- | | | | |
| · | Subangular blocky; Weak | Subangular blocky; Weak grade of structure, 5-10 mm, Subangular blocky; Rough-ped | | | | | | |
| fabric; Fine, (0 - plastic; Slightly | 5) mm crack; Common (1- | 5 per 100mm2) Very f | ine (0.075-1mm) m | acropores, Dry; Non- | | | | |
| fragments; Few, ve | | sticky; 0-2%, coarse gravelly, 20-60mm, subangular, dispersed, Dolerite, coarse | | | | | | |
| , . , . | fine (0-1mm) roots; Sharp, | fine (0-1mm) roots; Sharp, Smooth change to - | | | | | | |
| CR 0.17 - 0. structure; Earthy | 54 m Olive brown (2.5Y4/4-Mois | Olive brown (2.5Y4/4-Moist); Light grey (2.5Y7/2-Moist); , 0-0% ; Massive grade of | | | | | | |
| · · · · · · · · · · · · · · · · · · · | fabric; Dry; | fabric; Dry; | | | | | | |
| Morphological A11 A12 | Penetration resistance: soft Penetration resistance: Firr | m | | | | | | |
| CR | Penetration resitance: Harc | d. Sampled 20-0cm La | beled S18B | | | | | |

Observation Notes

Vegetation of native poa and grasses. Substrate weathered/partially weathered dolerite.

Site Notes

GPS is the fix from the SCEAM database as not listed on soil profile discription card

Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania

| Project Code: | SCEAM | Site ID: | S18 | Observation | 1 |
|---------------|----------------|------------|------------------|-------------|---|
| Agency Name: | TAS Department | of Primary | y Industries and | d Fisheries | |

Laboratory Test Results:

| Depth | рН | 1:5 EC Ci | | hangeable Mg | Cations K | Na | Exchangeable Acidity | CEC | ECEC | ESP |
|-----------|--------------|--------------|--------|-----------------|--------------|---------|-------------------------|-----|--------|-----|
| m | | dS/m | u | ing | N. | Cmol (+ | | | | % |
| 0 - 0.075 | 5.7C 6.4A | 0.061A 1 | 18.53A | 6.75 | 0.63 | 0.24 | 0.07D 0G 0.08A | | 26.23B | |
| 0.2 - 0.5 | 6.6C 7.3A | 0.036A | 9.57A | 7.15 | 0.05 | 0.14 | 0.01D 0G 0.02A | | 16.93B | |

| Depth | CaCO3 | Organic C | Avail. P | Total P | Total N | Total K | Bulk Density | F GV | Particle CS | Size / FS | Analysis Silt |
|-----------|-------|--------------|-------------|------------|------------|------------|-----------------|---------|----------------|--------------|------------------|
| m | % | Clay % | mg/kg | % | % | % | Mg/m3 | | | % | |
| 0 - 0.075 | | 3.52B | 17H 6.8I | | 0.38D | | | | | | |
| 0.2 - 0.5 | | 0.37B | 2H 0.9I | | 0.03D | | | | | | |

Laboratory Analyses Completed for this profile

| 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_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 15A1_NA Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts 15G_C_AL2 Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts 15G_C_C_AL2 Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts 15G_C_LAL2 Exchangeable solum percentage (SC) Bast 15G_L for soluble salts 15G1 Exchangeable sodium percentage (ESP) 18A1 Bicarbonate-extractable potassium 3A1 EC of 1:5 soil/water extract 4A1 pH of 1:5 soil/water sus | 10B_NR 12_NR_FE 12A1_CU 12A1_FE 12A1_MN 12A1_ZN 12C1 15_NR_AL 15_NR_H 15A1_CA for soluble | Extractable sulfur (mg/kg) - Not recorded Total element - Fe(%) - Not recorded DTPA - extractable copper, zinc, manganese and iron DTPA - extractable copper, zinc, manganese and iron DTPA - extractable copper, zinc, manganese and iron DTPA - extractable copper, zinc, manganese and iron Calcium chloride extractable boron - manual colour Aluminium Cation - meq per 100g of soil - Not recorded Hydrogen Cation - meq per 100g of soil - Not recorded Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts |
|--|---|---|
| salts salts 15A1_MG Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts salts 15A1_NA Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts salts 15G_C_AL2 Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts salts 15G_C_AL2 Exchangeable aluminium - meq per 100g of soil - Aluminium By KCI extraction and detremination By AAS 15G1 Exchange acidity (hydrogen and aluminium) by 1M potassium chloride 15J_H Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen) 15N1 Exchangeable sodium percentage (ESP) 18A1 Bicarbonate-extractable potassium 3A1 EC of 1:5 soil/water suspension 4B2 pH of 1:5 soil/water suspension 4B2 pH of 1:5 soil/0.01M calcium chloride extract - following Method 4A1 6B2 Total organic carbon - high frequency induction furnace, volumetric 7A5 Total introgen - high frequency induction furnace, thermal conductivity 7C1a Ammonium-N, in presence of nitrite 9B2_COL Bicarbonate-extractable phosphorus - automated col | | |
| 15A1_MG for solubleExchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts15A1_NA for solubleExchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts15G_C_AL2 By AASExchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts15G_C_AL2 By AASExchangeable aluminium - meq per 100g of soil - Aluminium By KCl extraction and detremination15G1 15J_H Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen) 15N1 Exchangeable sodium percentage (ESP)18A1 Bicarbonate-extractable potassium 3A1 4B2 B2 CD FH of 1:5 soil/water extract 4A1 C of 1:5 soil/water suspension 4B2 COL not organic carbon - high frequency induction furnace, volumetric 7A5 Total nitrogen - high frequency induction furnace, thermal conductivity 7C1a Ammonium-N, in presence or absence of nitrite 7C1b SB2_COL Bicarbonate-extractable phosphorus - automated colour. Based on Colwell (1965). Method no longer | | salts |
| 15A1_NA for solubleExchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts15G_C_AL2 By AASExchangeable aluminium - meq per 100g of soil - Aluminium By KCl extraction and detremination15G1 15J_HExchange acidity (hydrogen and aluminium) by 1M potassium chloride salts - acidity - Sum of basic exch. cations and exch. (Hydrogen)15N1 15N1Exchangeable sodium percentage (ESP) 18A1 Bicarbonate-extractable potassium 3A1 4B2 PH of 1:5 soil/water suspension 4B2 PH of 1:5 soil/0.01M calcium chloride extract - following Method 4A1 6B2 Total organic carbon - high frequency induction furnace, volumetric 7A5 Total nitrogen - high frequency induction furnace, thermal conductivity 7C1a Ammonium-N, in presence of nitrite 9B2_COL Bicarbonate-extractable phosphorus - automated colour. Based on Colwell (1965). Method no longer | | |
| for solublesalts15G_C_AL2Exchangeable aluminium - meq per 100g of soil - Aluminium By KCl extraction and detreminationBy AASExchange acidity (hydrogen and aluminium) by 1M potassium chloride15J_HSum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen)15N1Exchangeable sodium percentage (ESP)18A1Bicarbonate-extractable potassium3A1EC of 1:5 soil/water extract4A1pH of 1:5 soil/water suspension4B2pH of 1:5 soil/0.01M calcium chloride extract - following Method 4A16B2Total organic carbon - high frequency induction furnace, volumetric7A5Total nitrogen - high frequency induction furnace, thermal conductivity7C1aAmmonium-N, in presence of nitrite9B2_COLBicarbonate-extractable phosphorus - automated colour. Based on Colwell (1965). Method nolongerrecommended | | |
| 15G_C_AL2 By AASExchangeable aluminium - meq per 100g of soil - Aluminium By KCl extraction and detremination15G1 15J_HExchange acidity (hydrogen and aluminium) by 1M potassium chloride15J_HSum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen)15N1Exchangeable sodium percentage (ESP)18A1Bicarbonate-extractable potassium3A1EC of 1:5 soil/water extract4A1pH of 1:5 soil/water suspension4B2pH of 1:5 soil/0.01M calcium chloride extract - following Method 4A16B2Total organic carbon - high frequency induction furnace, volumetric7A5Total nitrogen - high frequency induction furnace, thermal conductivity7C1aAmmonium-N, in presence of nitrite9B2_COLBicarbonate-extractable phosphorus - automated colour. Based on Colwell (1965). Method nolongerrecommended | | |
| By AAS 15G1 Exchange acidity (hydrogen and aluminium) by 1M potassium chloride 15J_H Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen) 15N1 Exchangeable sodium percentage (ESP) 18A1 Bicarbonate-extractable potassium 3A1 EC of 1:5 soil/water extract 4A1 pH of 1:5 soil/water suspension 4B2 pH of 1:5 soil/0.01M calcium chloride extract - following Method 4A1 6B2 Total organic carbon - high frequency induction furnace, volumetric 7A5 Total nitrogen - high frequency induction furnace, thermal conductivity 7C1a Ammonium-N, in presence of nitrite 9B2_COL Bicarbonate-extractable phosphorus - automated colour. Based on Colwell (1965). Method no longer recommended | | |
| 15_H Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen) 15N1 Exchangeable sodium percentage (ESP) 18A1 Bicarbonate-extractable potassium 3A1 EC of 1:5 soil/water extract 4A1 pH of 1:5 soil/water suspension 4B2 pH of 1:5 soil/0.01M calcium chloride extract - following Method 4A1 6B2 Total organic carbon - high frequency induction furnace, volumetric 7A5 Total nitrogen - high frequency induction furnace, thermal conductivity 7C1a Ammonium-N, in presence or absence of nitrite 9B2_COL Bicarbonate-extractable phosphorus - automated colour. Based on Colwell (1965). Method no longer recommended | | Exchangeable aluminium - med per 100g of soil - Aluminium By KCI extraction and detremination |
| 9C2 Olsen-extractable phosphorus - automated colour | 15J_H 15N1 18A1 3A1 4A1 4B2 6B2 7A5 7C1a 7C1b 9B2_COL | Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen) Exchangeable sodium percentage (ESP) Bicarbonate-extractable potassium EC of 1:5 soil/water extract pH of 1:5 soil/water suspension pH of 1:5 soil/0.01M calcium chloride extract - following Method 4A1 Total organic carbon - high frequency induction furnace, volumetric Total nitrogen - high frequency induction furnace, thermal conductivity Ammonium-N, in presence or absence of nitrite (Nitrate+nitrite)-N, in presence of nitrite Bicarbonate-extractable phosphorus - automated colour. Based on Colwell (1965). Method no |
| | 9C2 | |