

**Project Name:** STM  
**Project Code:** STM **Site ID:** H54 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (TAS)

**Site Information**

<b>Desc. By:</b>	J. Loveday	<b>Locality:</b>	Position marked on detailed soil map Cornwall map 1C:
<b>Date Desc.:</b>	22/03/53	<b>Elevation:</b>	335 metres
<b>Map Ref.:</b>	Sheet No. : 8514 1:100000	<b>Rainfall:</b>	790
<b>Northing/Long.:</b>	148.033333333333	<b>Runoff:</b>	Rapid
<b>Easting/Lat.:</b>	-41.5666666666667	<b>Drainage:</b>	Poorly drained

**Geology**

<b>Exposure Type:</b>	Soil pit	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	Dolerite

**Land Form**

<b>Rel/Slope Class:</b>	Undulating rises 9-30m 3-10%	<b>Pattern Type:</b>	Rises
<b>Morph. Type:</b>	Ridge	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	Gently inclined
<b>Slope:</b>	0 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Haplic Eutrophic Brown Dermosol		<b>Principal Profile Form:</b>	Dy3.13
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Grey-brown podzolic soil
All necessary analytical data are available.			

**Site Disturbance:** Limited clearing, for example selective logging

**Vegetation:**

Tall Strata - Tree, 12.01-20m, Sparse. \*Species includes - None Recorded

**Surface Coarse Fragments:**

**Profile Morphology**

A1	0 - 0.08 m	Greyish brown (10YR5/2-Moist); ; Fine sandy loam; Moderate grade of structure, Granular; Very weak consistence; 20-50%, cobbly, 60-200mm, angular, Dolerite, coarse fragments; Many, medium (2-5mm) roots; Diffuse change to -
AB	0.08 - 0.15 m	Greyish brown (10YR5/2-Moist); ; Clay loam; Weak grade of structure, 2-5 mm, Granular; Dry; Very firm consistence; 2-10%, Dolerite, coarse fragments; Common, fine (1-2mm) roots; Diffuse change to -
AB	0.15 - 0.23 m	Greyish brown (10YR5/2-Moist); , 10YR32; Clay loam (Heavy); Weak grade of structure, 5-10 mm, Granular; Dry; Very strong consistence; 0-2%, Dolerite, coarse fragments; Diffuse change to -
B	0.23 - 0.3 m	Dark greyish brown (10YR4/2-Moist); , 2.5Y54; Medium clay; Moderate grade of structure, 50-100 mm, Prismatic; Moderate grade of structure, 10-20 mm, Angular blocky; Rigid consistence; 2-10%, Dolerite, coarse fragments; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Concretions; Diffuse change to -
B	0.3 - 0.5 m	Light olive brown (2.5Y5/4-Moist); ; Medium clay; Moderate grade of structure, 50-100 mm, Prismatic; Moderate grade of structure, 10-20 mm, Angular blocky; Moderately moist; Rigid consistence; 2-10%, Dolerite, coarse fragments; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), ; Diffuse change to -
BC	0.61 - 0.74 m	Light olive brown (2.5Y5/4-Moist); , 10YR32; Medium clay; Moist; Very firm consistence; 2-10%, Dolerite, coarse fragments; Diffuse change to -
C	0.79 - 0.94 m	Light brownish grey (2.5Y6/2-Moist); , 10YR64; Medium clay; Moist; Very firm consistence; 20-50%, stony, 200-600mm, Dolerite, coarse fragments;
C	1.04 - 1.12 m	Olive yellow (2.5Y6/8-Moist); ; Moist; Very firm consistence; 10-20%, Dolerite, coarse fragments;

**Morphological Notes**

**Observation Notes**

**Site Notes**

CORNWALL

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**Laboratory Test Results:**

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**Laboratory Analyses Completed for this profile**

15D1_CEC	CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
15E1_CA	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) by compulsive exchange, no pretreatment for soluble
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
15G_C_H1	Exchangeable hydrogen - meq per 100g of soil - Hydrogen By back titration of A or B
15G1_H	Hydrogen Cation - meq per 100g of soil - 1M KCl Exch. Acidity By titration to pH 8.0
15J_H	Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen)
19A1	Carbonates - rapid titration
2_LOI	Loss on Ignition (%)
2A1	Air-dry moisture content
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9A_HCL	Total element - P(%) - By boiling HCl
P10_GRAV	Gravel (%)
P10A1_C	Clay (%) - Pipette
P10A1_CS	Coarse sand (%) - Pipette
P10A1_FS	Fine sand (%) - Pipette
P10A1_Z	Silt (%) - Pipette