

**Project Name:** TYE  
**Project Code:** TYE      **Site ID:** H214      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (TAS)

**Site Information**

<b>Desc. By:</b>	G.M. Dimmock	<b>Locality:</b>	4.8KM SE of Ouse: on edge of terrace: 4.6M SE of fence:
<b>Date Desc.:</b>	27/04/61	<b>Elevation:</b>	70 metres
<b>Map Ref.:</b>		<b>Rainfall:</b>	560
<b>Northing/Long.:</b>	146.743055555556	<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>	-42.515277777778	<b>Drainage:</b>	Well 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>	Auger boring, 2 m deep, Unconsolidated material (unidentified)

**Land Form**

<b>Rel/Slope Class:</b>	Level plain <9m <1%	<b>Pattern Type:</b>	Flood plain
<b>Morph. Type:</b>	Flat	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Backplain	<b>Slope Category:</b>	Level
<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
Melanic Eutrophic Black Kandosol		<b>Principal Profile Form:</b>	Um6.41
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Alluvial soil
All necessary analytical data are available.			

**Site Disturbance:** Complete clearing. Pasture, native or improved, but never cultivated

**Vegetation:**

**Surface Coarse Fragments:**

**Profile Morphology**

0 - 0.02 m	Very dark brown (10YR2/2-Moist); ; Clay loam; Moderate grade of structure, <2 mm, Granular; Weak consistence; Abundant, fine (1-2mm) roots; Abrupt change to -
0.02 - 0.1 m	Very dark brown (10YR2/2-Moist); ; Clay loam; Strong grade of structure, 2-5 mm, Angular blocky; Very weak consistence; Many
0.1 - 0.3 m	Very dark brown (10YR2/2-Moist); ; Clay loam (Heavy); Strong grade of structure, 2-5 mm, Angular blocky; Very weak consistence; Many
0.3 - 0.41 m	Very dark brown (7.5YR2/2-Moist); ; 10YR22; Clay loam, fine sandy; Moderate grade of structure, 2-5 mm, Angular blocky; Very weak consistence; 0-2%, medium gravelly, 6-20mm, angular, Charcoal, coarse fragments; Common
0.43 - 0.52 m	Very dark brown (7.5YR2/2-Moist); ; Fine sandy medium clay; Weak grade of structure, 2-5 mm, Angular blocky; Weak consistence; 0-2%, fine gravelly, 2-6mm, Charcoal, coarse fragments;
0.56 - 0.74 m	Dark brown (7.5YR3/3-Moist); ; 7.5YR22; Sandy medium clay; Weak grade of structure, 2-5 mm, Angular blocky; Common (1-5 per 100mm <sup>2</sup> ) Fine (1-2mm) macropores, Weak consistence; Slightly plastic; Normal plasticity; Few Gradual, Irregular change to -
0.74 - 0.81 m	Very dark brown (7.5YR2/2-Moist); ; Sandy medium clay; Weak grade of structure, 2-5 mm, Angular blocky; Weak consistence; Few
0.81 - 1.04 m	Very dark brown (10YR2/2-Moist); ; 10YR32; Light medium clay; Moderate grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Weak consistence; 0-2%, Charcoal, coarse fragments; Few
1.04 - 1.29 m	Very dark brown (7.5YR2/2-Moist); ; Medium clay; Weak grade of structure, 2-5 mm, Angular blocky; 0-2%, Charcoal, coarse fragments; Few (2 - 10 %), Unidentified, Medium (2 -6 mm), Soft segregations;
1.9 - 1.98 m	Dark greyish brown (2.5Y4/3-Moist); ; 10YR57; Sandy medium clay; 0-2%, Charcoal, coarse fragments;

**Morphological Notes**

**Observation Notes**

Project Name: TYE  
Project Code: TYE Site ID: H214 Observation ID: 1  
Agency Name: CSIRO Division of Soils (TAS)

Site Notes  
ELLENDALE

**Observation ID: 1**

**Laboratory Test Results:**

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity		%
						Cmol	(+)/kg		
0 - 0.02	6.2A	0.185A	25.2H	8.6	0.72	0.69	9.2H		51.4B
0.02 - 0.1	6.2A	0.065A	26.2H	7.3	0.17	0.28	16.2E		50.6B
0.1 - 0.3	6.4A	0.036A	25.2H	5.6	0.09	0.24	9.3H		43.8B
0.3 - 0.41	7A	0.03A	22.2H	5.9	0.04	0.26	16.6E		34.4B
0.43 - 0.52	7A	0.021A					7.3H		
0.56 - 0.74	7A	0.024A	15.8H	5.1	0.03	0.16	12.7E		25.1B
0.74 - 0.81	7A	0.03A					6E		
0.81 - 1.04	7.1A	0.027A	24.8H	11.6	0.06	0.22	6.9E		43.6B
1.04 - 1.29	7.3A	0.027A							
1.9 - 1.98	7.6A	0.024A							

[illegible][illegible]

**Project Name:** TYE  
**Project Code:** TYE      **Site ID:** H214      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (TAS)

**Laboratory Analyses Completed for this profile**

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)
2_LOI	Loss on Ignition (%)
2A1	Air-dry moisture content
3A1	EC of 1:5 soil/water extract
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 (%)
P10_PB_C	Clay (%) - Plummet balance
P10_PB_CS	Coarse sand (%) - Plummet balance
P10_PB_FS	Fine sand (%) - Plummet balance
P10_PB_Z	Silt (%) - Plummet balance
P10A1_C	Clay (%) - Pipette
P10A1_CS	Coarse sand (%) - Pipette
P10A1_FS	Fine sand (%) - Pipette
P10A1_Z	Silt (%) - Pipette