

**Project Name:** ESK  
**Project Code:** ESK      **Site ID:** H156      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (TAS)

**Site Information**

<b>Desc. By:</b>	G.M. Dimmock	<b>Locality:</b>	2.4KM south-south-east of Cressy on property Firbank:
<b>Date Desc.:</b>	01/02/57	<b>Elevation:</b>	140 metres
<b>Map Ref.:</b>		<b>Rainfall:</b>	690
<b>Northing/Long.:</b>	147.084722222222	<b>Runoff:</b>	Very slow
<b>Easting/Lat.:</b>	-41.715277777778	<b>Drainage:</b>	Very poorly drained

**Geology**

<b>ExposureType:</b>	Soil pit	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	Unconsolidated material (unidentified)

**Land Form**

<b>Rel/Slope Class:</b>	Gently undulating plains <9m 1-3%	<b>Pattern Type:</b>	Flood plain
<b>Morph. Type:</b>	Flat	<b>Relief:</b>	0 metres
<b>Elem. Type:</b>	Supratidal flat	<b>Slope Category:</b>	Level
<b>Slope:</b>	0 %	<b>Aspect:</b>	0 degrees

**Surface Soil Condition (dry):** Cracking

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Mottled Self-Mulching Aquic Vertosol		<b>Principal Profile Form:</b>	Ug6.1
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Humic gley
All necessary analytical data are available.			

**Site Disturbance:** No effective disturbance. Natural

**Vegetation:** Low Strata - Tussock grass, 0.51-1m, Mid-dense. \*Species includes - None recorded  
Tall Strata - Sedge, , . \*Species includes - None Recorded

**Surface Coarse Fragments:**

**Profile Morphology**

A	0 - 0.08 m	Very dark brown (10YR2/2-Moist); ; Clay loam (Fibric); Moderate grade of structure, 2-5 mm, Granular; Dry; Strong consistence; AbundantDiffuse change to -
	0.08 - 0.15 m	Black (10YR2/1-Moist); ; Heavy clay; Strong grade of structure, 2-5 mm, Granular; Weak consistence; Many
	0.15 - 0.23 m	Black (10YR2/1-Moist); ; Heavy clay; Strong grade of structure, 2-5 mm, Granular; Weak consistence; Many
	0.3 - 0.48 m	(N2/0-Moist); ; Heavy clay; Weak grade of structure, 20-50 mm, Angular blocky; Weak consistence; Common (10 - 20 %), Unidentified, Fine (0 - 2 mm), Concretions; Common
	0.53 - 0.64 m	(N3/0-Moist); , 7.5YR58; Heavy clay; Weak grade of structure, Prismatic; Strong consistence; Many (20 - 50 %), Unidentified, Medium (2 - 6 mm), Concretions; Few
	0.71 - 0.91 m	(N3/0-Moist); , 7.5YR58; Clayey sand (Heavy); Weak grade of structure, Prismatic; Firm consistence; Common (10 - 20 %), Unidentified, Medium (2 - 6 mm), Concretions; Few
	0.91 - 1.22 m	(N3/0-Moist); , 7.5YR58; Sandy medium clay; Weak grade of structure, 50-100 mm, Prismatic; Slightly plastic; Normal plasticity; Common (10 - 20 %), Unidentified, , Concretions;
	1.37 - 1.55 m	Yellowish brown (10YR5/6-Moist); , 10YR66; Sandy medium clay; Massive grade of structure; Moderately plastic; Normal plasticity;

**Morphological Notes**

**Observation Notes**

137-155CM SC WITH POCKETS OF WEAKLY COMPACTED DG SC:91-122CM SLICKENSIDES ON PED FACES:

**Site Notes**

WESTMORLAND

**Observation ID: 1**

[illegible]

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**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
XRD_C_Gt	Geothite - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Lp	Lepidocrosite - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction