

Project Name: ESK
Project Code: ESK **Site ID:** H242 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	K.D. Nicholls	Locality:	4.1KM SE of Cressy; alongside Poatina H'way on property "Formosa": 30M S from road and adjacent fence:
Date Desc.:	17/04/62	Elevation:	158 metres
Map Ref.:		Rainfall:	630
Northing/Long.:	147.109722222222	Runoff:	Very slow
Easting/Lat.:	-41.7194444444445	Drainage:	Poorly drained

Geology

Exposure Type:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Terrace (alluvial)
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	No Data	Slope Category:	Level
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Eutrophic Mottled-Subnatric Brown Sodosol	Principal Profile Form:	Dy3.42
ASC Confidence:	Great Soil Group:	Solodic soil

All necessary analytical data are available.

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

Vegetation:

Tall Strata - Tree, , Isolated plants. *Species includes - Eucalyptus pauciflora, Eucalyptus ovata

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.1 m	Brown (7.5YR4/2-Moist); , 7.5YR58; Sandy loam (Light); Weak grade of structure, <2 mm, Granular; Moderately moist; Weak consistence; 0-2%, coarse gravelly, 20-60mm, Quartz, coarse fragments; Many Diffuse change to -
A1	0.1 - 0.2 m	Brown (7.5YR4/3-Moist); Brown (7.5YR5/4-Dry); , 7.5YR58; Sandy loam (Light); Massive grade of structure; Moderately moist; Very weak consistence; 2-10%, Gravel, coarse fragments; Common Diffuse change to -
A2	0.2 - 0.3 m	Reddish yellow (7.5YR6/5-Moist); Pink (7.5YR7/4-Dry); ; Sand; Single grain grade of structure; Moist; Loose consistence; 20-50%, coarse gravelly, 20-60mm, rounded, Quartz, coarse fragments; Many (20 - 50 %), Ferruginous, Very coarse (20 - 60 mm), Concretions; Diffuse change to -
A2	0.3 - 0.41 m	Reddish yellow (7.5YR6/5-Moist); Pink (7.5YR7/4-Dry); ; Sand; Single grain grade of structure; Moist; Loose consistence; 50-90%, coarse gravelly, 20-60mm, rounded, Quartz, coarse fragments; Very many (50 - 100 %), Ferruginous, Very coarse (20 - 60 mm), Concretions; Diffuse change to -
A2	0.41 - 0.53 m	Reddish yellow (7.5YR6/5-Moist); Pink (7.5YR7/4-Dry); ; Sand; Single grain grade of structure; Moist; Loose consistence; 50-90%, coarse gravelly, 20-60mm, rounded, Quartz, coarse fragments; Very many (50 - 100 %), Ferruginous, Very coarse (20 - 60 mm), Concretions; Diffuse, Tongued change to -
B1	0.58 - 0.71 m	Strong brown (7.5YR5/6-Moist); , 10YR64; Heavy clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Moist; Weak consistence; 10-20%, coarse gravelly, 20-60mm, Gravel, coarse fragments; Diffuse change to -
	0.71 - 0.84 m	Dark yellowish brown (10YR4/4-Moist); , 10YR54; Medium clay; Weak grade of structure, 2-5 mm, Subangular blocky; Very weak consistence; 0-2%, fine gravelly, 2-6mm, Gravel, coarse fragments; Few (2 - 10 %), Ferruginous, Medium (2 - 6 mm), ; Diffuse change to -
	0.84 - 0.99 m	Dark yellowish brown (10YR4/4-Moist); , 10YR54; , 7.5YR56; Medium clay; Massive grade of structure; Very weak consistence; 0-2%, fine gravelly, 2-6mm, Gravel, coarse fragments; Few (2 - 10 %), Ferruginous, Medium (2 - 6 mm), ; Diffuse change to -

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|---------------|---|
| 1.14 - 1.22 m | Dark yellowish brown (10YR4/4-Moist); ; Medium clay; Smooth-ped fabric; Weak consistence; 2-10%, Gravel, coarse fragments; Very few (0 - 2 %), Ferruginous, Very coarse (20 - 60 mm), ; Diffuse change to - |
| 1.55 - 1.63 m | Dark yellowish brown (10YR4/4-Moist); , 10YR51; Medium clay; Weak consistence; 0-2%, Gravel, coarse fragments; Diffuse change to - |
| 2.23 - 2.31 m | Yellowish brown (10YR5/6-Moist); , 5Y51; Heavy clay; Very firm consistence; Slightly plastic; Normal plasticity; 0-2%, medium gravelly, 6-20mm, Quartz, coarse fragments; Diffuse change to - |

Morphological Notes

Observation Notes

0-20CM 7.5YR58 STAINING ALONG ROOTS:58-99CM SANDY POCKETS (POSSIBLE TONGUES OF A2):

Site Notes

SOUTH ESK

Observation ID: 1

[illegible]

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Laboratory Analyses Completed for this profile

15E1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) 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)
17A_HCL	Total element - K(%) - By boiling HCl
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_Ch2	Chloritized 2:1 minerals - X-Ray Diffraction
XRD_C_Gt	Geothite - X-Ray Diffraction
XRD_C_Il	Illite - X-Ray Diffraction
XRD_C_Is	Interstratified clay minerals - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction