

Project Name: ESK
Project Code: ESK **Site ID:** H244 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	K.D. Nicholls	Locality:	4.5KM SW of Cressy in "shed paddock" of property "Bronte":91M north + 122M west of boundary fences:
Date Desc.:	18/04/62	Elevation:	171 metres
Map Ref.:		Rainfall:	660
Northing/Long.:	147.036111111111	Runoff:	Moderately rapid
Easting/Lat.:	-41.7152777777778	Drainage:	Moderately well drained

Geology

Exposure Type:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Clay

Land Form

Rel/Slope Class:	Undulating hills 90-300m 3-	Pattern Type:	Hills
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	No Data	Slope Category:	Gently inclined
Slope:	7 %	Aspect:	225 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Mottled Mesotrophic Red Kurosol	Principal Profile Form:	Dr2.11
ASC Confidence:	Great Soil Group:	Red podzolic soil
All necessary analytical data are available.		

Site Disturbance: Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.1 m	Brown (7.5YR4/3-Moist); Brown (7.5YR5/4-Dry); ; Clay loam; Massive grade of structure; Dry; Very weak consistence; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Nodules; Diffuse change to -
A1B	0.1 - 0.18 m	Brown (7.5YR4/3-Moist); Brown (7.5YR5/4-Dry); ; Clay loam (Heavy); Massive grade of structure; Dry; Very weak consistence; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Nodules; Diffuse change to -
B1	0.18 - 0.28 m	Reddish brown (5YR4/3-Moist); ; Medium heavy clay; Weak grade of structure, 2-5 mm, Subangular blocky; Dry; Very firm consistence; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Nodules; CommonDiffuse change to -
	0.28 - 0.43 m	Reddish brown (5YR4/4-Moist); ; Medium heavy clay; Weak grade of structure, 5-10 mm, Angular blocky; Very firm consistence; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Nodules; CommonDiffuse change to -
	0.43 - 0.61 m	Reddish brown (5YR4/4-Moist); ; 7.5YR44; Medium heavy clay; Weak grade of structure, 2-5 mm, Angular blocky; Weak consistence; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Nodules; Diffuse change to -
	0.61 - 0.81 m	Dark yellowish brown (10YR4/4-Moist); ; 5YR44; Heavy clay; Weak grade of structure, 2-5 mm, Angular blocky; Weak consistence; Very few (0 - 2 %), Ferruginous, , Nodules; Diffuse change to -
	1.17 - 1.24 m	Dark yellowish brown (10YR4/4-Moist); ; 5YR44; Heavy clay; Massive grade of structure; Weak consistence; Few (2 - 10 %), Ferruginous, Fine (0 - 2 mm), Nodules;
	1.96 - 2.11 m	Dark yellowish brown (10YR4/4-Moist); ; 2.5YR46, 2-10% ; , 10YR21, 2-10% ; Heavy clay; Massive grade of structure; Firm consistence; Few (2 - 10 %), Ferruginous, Fine (0 - 2 mm), Concretions;

Morphological Notes

Observation Notes

18-43CM SOME FAIRLY EXTENSIVE VERTICAL STRUCTURE FACES:

Site Notes

QUAMBY

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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