**ESK Project Name:** 

**Project Code: ESK** Site ID: H260 Observation ID: 1

**Agency Name: CSIRO Division of Soils (TAS)** 

**Site Information** 

Desc. By: K.D. Nicholls Locality: 4.1KM SW of Cressy on property "Bronbe":90M S of

Rd fence and 132M fromwestern paddock fence:

Date Desc.: 29/10/63 Elevation: 172 metres

Rainfall: 690

Map Ref.: Northing/Long.: Moderately rapid 147.0375 Runoff: Easting/Lat.: Drainage: Moderately well drained -41.7125

Geology

ExposureType: Conf. Sub. is Parent. Mat.: No Data Soil pit Geol. Ref.: No Data **Substrate Material:** 

**Land Form** 

Rel/Slope Class: Rolling hills 90-300m 10-32% Pattern Type: Hills No Data Relief: No Data Morph. Type: Slope Category: Gently inclined Elem. Type: No Data 2 % Aspect: 315 degrees Slope:

Surface Soil Condition (dry):

**Erosion:** 

**Soil Classification** 

**Australian Soil Classification: Mapping Unit:** N/A Db2.21 Eutrophic Mottled-Subnatric Brown Sodosol **Principal Profile Form:** 

**ASC Confidence: Great Soil Group:** Lateritic podzolic

All necessary analytical data are available. soil

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

Vegetation:

**Surface Coarse Fragments:** 

**Profile Morphology** 

Ар	0 - 0.1 m	Dark brown (7.5YR3/2-Moist); ; Clay loam; Weak grade of structure, <2 mm, Subangular blocky; Moist; Weak consistence; 2-10%, Gravel, coarse fragments; ManyDiffuse change to -
Ар	0.1 - 0.15 m	Dark brown (7.5YR3/2-Moist); ; Clay loam; Weak grade of structure, 2-5 mm, Subangular blocky; Moist; Weak consistence; 2-10%, Gravel, coarse fragments; ManySharp change to -
A2	0.15 - 0.19 m	Dark greyish brown (10YR4/2-Moist); ; Fine sandy clay loam; Massive grade of structure; Moderately moist; Weak consistence; 2-10%, fine gravelly, 2-6mm, rounded, Gravel, coarse fragments; Few (2 - 10 %), Ferruginous, Fine (0 - 2 mm), Nodules; ManyClear change to -
A3sb	0.19 - 0.23 m	Brown (10YR4/3-Moist); ; Light clay; Weak grade of structure, <2 mm, Subangular blocky; Moist; Weak consistence; 0-2%, Gravel, coarse fragments; ManyClear change to -
B1	0.23 - 0.33 m	Brown (10YR4/3-Moist); , 2.5YR36; , 10YR42; Medium heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moist; Very firm consistence; 2-10%, Gravel, coarse fragments; ManyDiffuse change to -
B1B2	0.33 - 0.46 m	Brown (10YR4/3-Moist); , 2.5YR36; Medium heavy clay; Weak grade of structure, 10-20 mm, Angular blocky; Moist; Slightly plastic; Normal plasticity; 2-10%, Gravel, coarse fragments; ManyDiffuse change to -
	0.51 - 0.61 m	Brown (10YR4/3-Moist); , 5YR46; Medium heavy clay; Weak grade of structure, 10-20 mm, Angular blocky; Moderately plastic; Normal plasticity; FewDiffuse change to -
	0.71 - 0.81 m	Brown (10YR4/3-Moist); , 10YR44; , 5YR46; Medium heavy clay; Massive grade of structure; Smooth-ped fabric; Weak consistence; FewDiffuse change to -
	0.94 - 1.07 m	Brown (10YR4/3-Moist); , 10YR44; , 5YR46; Medium heavy clay; Massive grade of structure; Smooth-ped fabric; Moderately plastic; Normal plasticity; Sharp change to -
	1.07 - 1.22 m	Brown (10YR4/3-Moist); , 10YR52; , 5YR46; Medium heavy clay; Massive grade of structure;

Smooth-ped fabric; Moderately plastic; Normal plasticity; Diffuse change to -

## **Morphological Notes**

**Observation Notes** 

0-15CM SOME WORM ACTIVITY:19-23CM CHARCOAL ALSO:

**Site Notes** 

Project Name: ESK
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QUAMBY

Project Name: ESK
Project Code: ESK Site ID: H2
Agency Name: CSIRO Division of Soils (TAS) H260 Observation ID: 1

## **Laboratory Test Results:**

Depth	pH	1:5 EC	Excl	nangeable	Cations		Exchangeable	CEC	E	CEC	E	SP
•	•		a I	/lg	K	Na	Acidity					
m		dS/m				Cmol (	+)/kg				%	D
0 - 0.1	5.7A	0.063A	6.1H	2.8	0.22	0.27						
0.1 - 0.15	5.4A	0.048A	4.2H	2.4	0.13	0.22						
0.15 - 0.19	5.5A	0.033A				-						
0.19 - 0.23	5.4A	0.039A										
0.23 - 0.03	5.5A	0.051A										
0.33 - 0.46	5.7A	0.057A	3.5H	9.2	0.17	0.91						
0.94 - 1.07	5.7A	0.065A										
1.07 - 1.22	5.6A	0.074A										
Depth	CaCO3	Organic	Avail.	Total	Total	Tota	al Bulk	Pa	rticle Si	ize An	alysis	
•		Č	Р	Р	N	K	Density	GV			Silt C	lay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1		3.4D		0.043[		-		5	12B	28	24	27
0.1 - 0.15		2.61D		0.032[		-		5	14B	27	23	28
0.15 - 0.19		1.53D			0.07	-						
0.19 - 0.23		0.94D			0.0							
0.23 - 0.03		1.19D			0.09	96A		0	OD		_	0.5
0.33 - 0.46								3	2B	4	5 8	85
0.94 - 1.07 1.07 - 1.22									2B	3	8	88
1.07 - 1.22												
Depth COLE Gravimetric/Volumetric Water Contents												
Depth	COLE	Sat.	Gravi 0.05 Bar	metric/vo	oumetric v 0.5 Bar	vater Co 1 Bar		15 Bar	K sat	K unsat		
m		ou.	0.00 Dal		g - m3/m		o Dai	. o Dai	mm/h	ı	nm/h	

0 - 0.1 0.1 - 0.15 0.15 - 0.19 0.19 - 0.23 0.23 - 0.03 0.33 - 0.46 0.94 - 1.07 1.07 - 1.22

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## **Laboratory Analyses Completed for this profile**

Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble 15E1\_CA 15E1\_K 15E1\_MG 15E1\_NA Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts

Loss on Ignition (%) 2\_LOI 2A1 Air-dry moisture content 3A1 EC of 1:5 soil/water extract pH of 1:5 soil/water suspension 4A1

5A2 Chloride - 1:5 soil/water extract, automated colour

6A1\_UC Organic carbon (%) - Uncorrected Walkley and Black method Total nitrogen - semimicro Kjeldahl , automated colour Total element - P(%) - By boiling HCl 7A2

9A\_HCL

P10\_GRAV Gravel (%) P10A1\_C Clay (%) - Pipette P10A1\_CS P10A1\_FS Coarse sand (%) - Pipette Fine sand (%) - Pipette Silt (%) - Pipette P10A1\_Z