Project Name: ESK
Project Code: ESK **Site ID:** H204 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By: K.D. Nicholls
Locality: 4.85KM NE of Evandale on property "Glenard":9.03CH S of boundary fenceand .88CH W of hedge:

Date Desc.: 10/06/60
Map Ref.:
Northing/Long.: 147.295833333333
Easting/Lat.: -41.55
Elevation: 201 metres
Rainfall: 700
Runoff: Slow
Drainage: Poorly drained

Geology

ExposureType: Soil pit
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Soil pit, 1.5 m deep,Unconsolidated material (unidentified)

Land Form

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

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Mottled Self-Mulching Black Vertosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dd1.53
Great Soil Group: Wiesenboden

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

Vegetation:

Surface Coarse Fragments: 2-10%, stony, 200-600mm, rounded, Dolerite

Profile Morphology

A1	0 - 0.1 m	Very dark brown (10YR2/2-Moist); Dark grey (10YR4/1-Dry); ; Clay loam; Weak grade of structure, <2 mm, Granular; Wet; Weak consistence; 0-2%, stony, 200-600mm, Dolerite, coarse fragments; Diffuse change to -
	0.1 - 0.2 m	Very dark brown (10YR2/2-Moist); Dark grey (10YR4/1-Dry); ; Heavy clay; Weak grade of structure, 2-5 mm, Granular; Moderately plastic; Normal plasticity; 0-2%, stony, 200-600mm, Basalt, coarse fragments; Few (2 - 10 %), Unidentified, Fine (0 - 2 mm), Concretions; Diffuse change to -
	0.2 - 0.43 m	Very dark grey (10YR3/1-Moist); , 2.5YR58; Heavy clay; Massive grade of structure; Moderately plastic; Normal plasticity; 0-2%, stony, 200-600mm, Dolerite, coarse fragments; Few (2 - 10 %), Unidentified, Fine (0 - 2 mm), Concretions; Diffuse change to -
B	0.43 - 0.56 m	Dark greyish brown (10YR4/2-Moist); , 2.5YR58, 2-10% ; , 2-10% ; Heavy clay; Massive grade of structure; Wet; Moderately plastic; Normal plasticity; 0-2%, stony, 200-600mm, Basalt, coarse fragments; Diffuse change to -
C	0.69 - 0.79 m	Grey (10YR5/1-Moist); , 10YR56; Heavy clay; Diffuse change to -
C	1.09 - 1.14 m	Grey (10YR5/1-Moist); , 10YR56;

Morphological Notes

C On consolidated boulder beds:

Observation Notes

10-20CM SOME POCKETS OF AZ:69-114CM FORMER PEBBLES TO 150MM (W`D) CLEAR+ CLOSELY PACKED WITH LITTLE MATRIX:

Site Notes

LONGFORD

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.1	6A	0.063A	11.2H	10.2	0.35	1.1	10.8H 19.7E		42.5B	
0.1 - 0.2	6.2A	0.06A	13H	20.3	0.34	2.4	10.4H 20.7E		56.7B	
0.2 - 0.43	6.7A	0.08A								
0.43 - 0.56	7.4A	0.128A	16.5H	36.6	0.42	4.9	8.9E		67.3B	
0.69 - 0.79	8.2A	0.307A	18.8H	42.1	0.17	6.7			67.8B	
1.09 - 1.14	8.5A	0.33A								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis				
								GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1		3.65D		0.049D	0.28A			0	9B	24	22	35
0.1 - 0.2		2.4D		0.026D	0.19A			0	5B	17	14	57
0.2 - 0.43		1.8D			0.162A							
0.43 - 0.56		1.35D		0.014D	0.13A			0	2D	11	10	74
0.69 - 0.79								0	8B	29	19	40
1.09 - 1.14												

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	
m		g/g - m3/m3						mm/h	mm/h
0 - 0.1									
0.1 - 0.2									
0.2 - 0.43									
0.43 - 0.56									
0.69 - 0.79									
1.09 - 1.14									

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Laboratory Analyses Completed for this profile

15E1_CA	Exchangeable bases (Ca2+,Mg2+,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)
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