

Project Name: LAK
Project Code: LAK Site ID: H52 Observation ID: 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	C.G. Stephens	Locality:	3.2km SSE of Conara Junction:
Date Desc.:	24/01/53	Elevation:	204 metres
Map Ref.:	Sheet No. : 8314 1:100000	Rainfall:	560
Northing/Long.:	147.45	Runoff:	Slow
Easting/Lat.:	-41.85	Drainage:	Poorly drained

Geology

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

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Low hills
Morph. Type:	Crest	Relief:	No Data
Elem. Type:	Hillcrest	Slope Category:	Level
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Haplic Self-Mulching Black Vertosol	Principal Profile Form:	Ug5.12
ASC Confidence:	Great Soil Group:	Brown clay
All necessary analytical data are available.		

Site Disturbance: Limited clearing, for example selective logging

Vegetation:

Tall Strata - Tree, 12.01-20m, Sparse. *Species includes - Eucalyptus pauciflora, Eucalyptus ovata

Surface Coarse Fragments:

Profile Morphology

0 - 0.05 m	Dark brown (7.5YR3/2-Moist); ; Light clay; Moderate grade of structure, 5-10 mm, Granular; Very strong consistence; 2-10%, coarse gravelly, 20-60mm, Basalt, coarse fragments; Diffuse change to -
0.06 - 0.23 m	Dark reddish brown (5YR3/2-Moist); ; Heavy clay; Strong grade of structure, 50-100 mm, Prismatic; Weak grade of structure, 5-10 mm, Granular; Very strong consistence; 2-10%, coarse gravelly, 20-60mm, Basalt, coarse fragments; Diffuse change to -
0.23 - 0.38 m	Dark reddish brown (5YR2/2-Moist); ; Heavy clay; Strong grade of structure, 50-100 mm, Prismatic; Weak grade of structure, 5-10 mm, Granular; Very firm consistence; 2-10%, cobbly, 60-200mm, Basalt, coarse fragments; Diffuse change to -
0.41 - 0.58 m	Very dark grey (7.5YR3/1-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Very firm consistence; 2-10%, cobbly, 60-200mm, Basalt, coarse fragments;

Morphological Notes

Observation Notes

>58CM STONE INCREASING:BREADALBANE SERIES:

Site Notes

SOMERSET

Observation ID: 1

[illegible]

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Laboratory Analyses Completed for this profile

12_HCL_FE	Total element - Fe(%) - Total acid(HCl) extractable Fe
13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
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)
19A1	Carbonates - rapid titration
2_LOI	Loss on Ignition (%)
2A1	Air-dry moisture content
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
XRD_C_Hm	Hematite - 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
XRD_C_St	Smectite - X-Ray Diffraction