Project Name: SHA
Project Code: SHA **Site ID:** H157 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	G.M. Dimmock	**Locality:**	Top of remnant plateau 40CH west of Tarraleah Highway:3.2KM north of ouse "Greenhills" property:
Date Desc.:	05/02/57	**Elevation:**	335 metres
Map Ref.:		**Rainfall:**	560
Northing/Long.:	146.684722222222	**Runoff:**	Slow
Easting/Lat.:	-42.4672222222222	**Drainage:**	Well drained

Geology

ExposureType:	Soil pit	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	No Data	**Substrate Material:**	Soil pit, 0.5 m deep,Basalt

Land Form

Rel/Slope Class:	Level plain <9m <1%	**Pattern Type:**	Plateau
Morph. Type:	Flat	**Relief:**	0 metres
Elem. Type:	Plain	**Slope Category:**	Level
Slope:	0 %	**Aspect:**	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Melanic Hypocalcic Black Chromosol
ASC Confidence:
All necessary analytical data are available.

Mapping Unit: N/A
Principal Profile Form: Db3.12
Great Soil Group: Prairie soil

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

Vegetation:

Surface Coarse Fragments: 20-50%, bouldery, 600mm-2m, , Basalt

Profile Morphology

A	0 - 0.04 m	Dark brown (7.5YR3/2-Moist); ; Loam; Strong grade of structure, <2 mm, Granular; Moderately moist; Very weak consistence; Abundant, fine (1-2mm) roots;
A	0.04 - 0.1 m	Dark brown (7.5YR3/2-Moist); ; Loam; Strong grade of structure, <2 mm, Granular; Moderately moist; Very weak consistence; 50-90%, stony, 200-600mm, Basalt, coarse fragments; ManyDiffuse change to -
B	0.13 - 0.25 m	Very dark brown (10YR2/2-Moist); ; Heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Moderately moist; Very strong consistence; 2-10%, Basalt, coarse fragments;
BC	0.25 - 0.41 m	Very dark brown (10YR2/2-Moist); ; Heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Moderately moist; Very strong consistence; 50-90%, stony, 200-600mm, Basalt, coarse fragments;
BC	0.41 - 0.51 m	Very dark brown (10YR2/2-Moist); , 10YR56; , 10YR82; Heavy clay; Weak grade of structure, 20-50 mm, Angular blocky; Moderately moist; Strong consistence;

Morphological Notes

Observation Notes

41-51CM CLAY WITH POCKETS OF FRIABLE DECOMPOSED BASALT:>51CM ON PARENT MATERIAL (BASALT):

Site Notes

CUMBERLAND

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.04	5.8A	0.152A	23.4H	6.8	3.6	0.28	16.7H		64.5B	
							30.4E			
0.04 - 0.1	5.5A	0.104A								
0.13 - 0.25	6.4A	0.051A	25.2H	24.2	1.6	0.66	5.4H		65.4B	
							13.7E			
0.25 - 0.41	6.6A	0.048A								
0.41 - 0.51	6.9A	0.039A	22.8H	25.2	0.81	0.87	3.4H		60.3B	
							10.6E			

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 - 0.04		10.8D		0.081D	1.05A			0	1B	23	24	29
0.04 - 0.1		6.8D		0.057D	0.63A							
0.13 - 0.25		2.5D		0.03D	0.185A			6	2D	20	7	71
0.25 - 0.41												
0.41 - 0.51				0.029D	0.186A			0	4D	24	6	67

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 - 0.04										
0.04 - 0.1										
0.13 - 0.25										
0.25 - 0.41										
0.41 - 0.51										

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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