

Project Name: SOR
Project Code: SOR **Site ID:** H85 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	C.G. Stephens	Locality:	1.6km along Pawleena rd from Arthur h`way t`off
Date Desc.:	04/02/54	Elevation:	15 metres
Map Ref.:	Sheet No. : 8412 1:100000	Rainfall:	560
Northing/Long.:	147.583333333333	Runoff:	Slow
Easting/Lat.:	-42.766666666667	Drainage:	Poorly drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Soil pit, 1.6 m deep, Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	Undulating low hills 30-90m 3-10%	Pattern Type:	Low hills
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Valley flat	Slope Category:	Very gently sloped
Slope:	2.5 %	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:	Ug5.16
ASC Confidence:		Great Soil Group:	Black earth
All necessary analytical data are available.			

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

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A	0 - 0.13 m	Very dark brown (10YR2/2-Moist); ; Medium clay; Weak grade of structure, Granular; Moderately moist; Weak consistence; Diffuse change to -
AB	0.13 - 0.25 m	Black (10YR2/1-Moist); ; Medium clay; Massive grade of structure; Moist; Moderately plastic; Normal plasticity; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Concretions; Diffuse change to -
AB	0.28 - 0.41 m	Black (10YR2/1-Moist); ; Medium clay; 20-50 mm, Angular blocky; Moist; Moderately plastic; Normal plasticity; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Concretions; Diffuse change to -
B	0.41 - 0.53 m	Very dark grey (10YR3/1-Moist); ; Medium clay; 20-50 mm, Angular blocky; Moist; Moderately plastic; Normal plasticity; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Concretions; Diffuse change to -
B	0.56 - 0.69 m	Very dark greyish brown (2.5Y3/2-Moist); ; Medium clay; , Angular blocky; , Granular; Moist; Weak consistence; 0-2%, fine gravelly, 2-6mm, Basalt, coarse fragments; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Concretions; Diffuse, Irregular change to -
B	0.71 - 0.79 m	Dark brown (7.5YR3/2-Moist); ; Medium clay; , Angular blocky; , Granular; Moist; Weak consistence; Sharp change to -
B	0.89 - 1.02 m	Dark greyish brown (2.5Y4/3-Moist); ; Medium clay; , Angular blocky; , Granular; Moist; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Concretions; Diffuse change to -
BC	1.02 - 1.19 m	Light olive brown (2.5Y5/4-Moist); ; Medium clay; , Angular blocky; , Granular; Moist; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Concretions; Diffuse change to -
C	1.42 - 1.55 m	Olive (5Y5/4-Moist); ; Medium clay; Moist; 2-10%, Basalt, coarse fragments; Common (10 - 20 %), Manganiferous, Medium (2 -6 mm), Concretions; Many (20 - 50 %), Calcareous, Medium (2 -6 mm), Concretions;

Morphological Notes

Observation Notes

>155CM ON BASALT WITH GRAVEL AND CARBONATES:AT 91CM <10% CONCRETIONS OF LIME <6MM WHILST DIGGING
PIT:kornhill series:

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Site Notes
PEMBROKE

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Laboratory Test Results:

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Laboratory Analyses Completed for this profile

15D1_CEC	CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
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)
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
P10A1_C	Clay (%) - Pipette
P10A1_CS	Coarse sand (%) - Pipette
P10A1_FS	Fine sand (%) - Pipette
P10A1_Z	Silt (%) - Pipette