Project Name: DER
Project Code: DER **Site ID:** H158 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	G.M. Dimmock	**Locality:**	2KM north on road running north from Rockely Highway 2KM north west ofRockley township:site 10CH east of road:
Date Desc.:	13/02/57	**Elevation:**	107 metres
Map Ref.:		**Rainfall:**	530
Northing/Long.:	147.429166666667	**Runoff:**	Rapid
Easting/Lat.:	-42.8722222222222	**Drainage:**	Poorly drained

Geology

ExposureType:	Soil pit	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	No Data	**Substrate Material:**	Soil pit, 0.6 m deep,Sandstone

Land Form

Rel/Slope Class:	No Data	**Pattern Type:**	Hills
Morph. Type:	No Data	**Relief:**	No Data
Elem. Type:	Hillslope	**Slope Category:**	Gently inclined
Slope:	0 %	**Aspect:**	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Magnesic Mottled-Subnatric Yellow Sodosol
ASC Confidence:
All necessary analytical data are available.

Mapping Unit: N/A
Principal Profile Form: Dy5.41
Great Soil Group: Soloth

Site Disturbance: Extensive clearing, for example poisoning, ringbarking

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.08 m	Dark grey (10YR4/1-Moist); ; Loamy sand; Single grain grade of structure; Dry; Very weak consistence; AbundantSharp change to -
A2	0.11 - 0.15 m	Light grey (10YR7/1-Moist); , 10YR62; Sand; Single grain grade of structure; Moderately moist; Loose consistence; 0-2%, coarse fragments; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Concretions; ManyAbrupt, Irregular change to -
B	0.23 - 0.36 m	Brownish yellow (10YR6/6-Moist); , 5Y52; , 10YR52; Medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moderately moist; Very firm consistence; 0-2%, coarse fragments; Common
B	0.36 - 0.51 m	Brownish yellow (10YR6/6-Moist); , 5Y52; , 10YR52; Sandy medium clay (Heavy); Weak grade of structure, 20-50 mm, Angular blocky; Moist; Firm consistence; Slightly plastic; Normal plasticity; 2-10%, medium gravelly, 6-20mm, coarse fragments; Few
BC	0.51 - 0.57 m	Brownish yellow (10YR6/6-Moist); , 5Y52; , 5B61; Sandy clay loam; Massive grade of structure; Moist; Weak consistence;

Morphological Notes

Observation Notes

>57CM ON PARENT MATERIAL (SANDSTONE):

Site Notes

MONMOUTH

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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 - 0.08	5.5A	0.051A	3.9H	1.4	0.22	0.24	6.7H 10.7E		16.5B	
0.11 - 0.15	5.5A	0.042A	0.25H	0.65	0.09	0.23	2.9H 4.3E		5.5B	
0.23 - 0.36	5.6A	0.122A	0.47H	13.7	0.58	2.1	7H 11.9E		28.8B	
0.36 - 0.51	5.8A	0.176A								
0.51 - 0.57	6.4A	0.185A	0.16H	11	0.34	2.8	0.6H 2.9E		17.2B	

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 - 0.08		2.6D		0.007D	0.107A			0	13D	77	2	3
0.11 - 0.15		0.72D		0.004D	0.031A			1	14D	78	6	2
0.23 - 0.36		0.88D			0.072A			1	4D	42	6	51
0.36 - 0.51												
0.51 - 0.57								0	7D	55	6	33

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 - 0.08										
0.11 - 0.15										
0.23 - 0.36										
0.36 - 0.51										
0.51 - 0.57										

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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