Project Name: SOR
Project Code: SOR **Site ID:** H189 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By: K.D. Nicholls
Locality: 7.3KM E of Bochwell:basin north of Melton Mowlroy/Bothwell Rd:pit in track between Rd and Dennistoun Road:
Date Desc.: 11/05/59
Elevation: 442 metres
Map Ref.:
Rainfall: 530
Northing/Long.: 147.0966667
Runoff: Moderately rapid
Easting/Lat.: -42.38166667
Drainage: Poorly drained

Geology

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

Land Form

Rel/Slope Class: No Data
Pattern Type: Alluvial fan
Morph. Type: No Data
Relief: No Data
Elem. Type: Drainage depression
Slope Category: No Data
Slope: 0 %
Aspect: No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Eutrophic Mottled-Hypernatric Brown Sodosol
ASC Confidence:
All necessary analytical data are available.

Mapping Unit: N/A
Principal Profile Form: Dy3.41
Great Soil Group: Soloth

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

Vegetation: Low Strata - Tussock grass, 0.51-1m, Mid-dense. *Species includes - None recorded

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.05 m	Brown (7.5YR4/2-Moist); Brown (7.5YR5/2-Dry); ; Loamy sand; Weak grade of structure, 2-5 mm, Granular; Dry; Very weak consistence; Diffuse change to -
A2	0.05 - 0.15 m	Light brownish grey (10YR6/2-Moist); White (10YR8/2-Dry); ; Sand (Heavy); Massive grade of structure; Dry; Very weak consistence; Diffuse change to -
A2	0.15 - 0.23 m	Light brownish grey (10YR6/2-Moist); White (10YR8/2-Dry); ; Sand (Heavy); Massive grade of structure; Dry; Very weak consistence; Diffuse change to -
A2	0.23 - 0.25 m	Light brownish grey (10YR6/2-Moist); White (10YR8/2-Dry); ; Sand; Massive grade of structure; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Very weak consistence; 0-2%, Gravel, coarse fragments; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Concretions; Sharp change to -
B	0.28 - 0.41 m	Strong brown (7.5YR5/8-Moist); , 10YR41; Heavy clay; Strong grade of structure, 20-50 mm, Columnar; Fine, (0 - 5) mm crack; Very firm consistence; 2-10%, Gravel, coarse fragments; Diffuse change to -
B	0.41 - 0.56 m	Strong brown (7.5YR5/8-Moist); , 10YR41; Heavy clay; Strong grade of structure, 20-50 mm, Columnar; Medium, (5 - 10) mm crack; Very firm consistence; 2-10%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Diffuse change to -
B	0.56 - 0.69 m	Strong brown (7.5YR5/8-Moist); , 10YR51; Sandy medium clay; Weak grade of structure, 20-50 mm, Columnar; Fine, (0 - 5) mm crack; Very firm consistence; 2-10%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Diffuse change to -
BC	0.69 - 0.91 m	Strong brown (7.5YR5/8-Moist); , 10YR51; Sandy medium clay; Weak grade of structure, 20-50 mm, Columnar; Very firm consistence; 2-10%, Gravel, coarse fragments;
C	1.17 - 1.24 m	Yellowish brown (10YR5/6-Moist); ; Loamy sand; Massive grade of structure; Moist; Very weak consistence; 20-50%, coarse gravelly, 20-60mm, angular, Sandstone, coarse fragments;
	1.9 - 1.98 m	Dark grey (10YR4/1-Moist); , 7.5YR56; Sandy medium clay; Massive grade of structure; Very weak consistence; 2-10%, Gravel, coarse fragments;

Morphological Notes

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28-56CM 10Y41 COATINGS ON AGGREGATES AND ROOT CHANNELS:28-41CM A2 MATERIAL DOWN CRACKS:BLEACHED G SAND ON TOPS OF COL:

Site Notes

OATLANDS

Observation Notes

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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 - 0.05	5.7A	0.077A	1.9H	1	0.36	0.48	4.9H		11.6B	
							7.9E			
0.05 - 0.15	6.2A	0.054A								
0.15 - 0.23	6.3A	0.095A	0.43H	0.68	0.09	0.53	0.9H		3.4B	
							1.7E			
0.23 - 0.25	6.3A	0.086A								
0.28 - 0.41	5.8A	0.42A	0.72H	6	0.5	3.1	4.3H		20.1B	
							9.8E			
0.41 - 0.56	5.6A	0.435A	0.52H	5.4	0.46	2.9	3.9H		18.1B	
							8.8E			
0.56 - 0.69	5.5A	0.369A	0.51H	3.7	0.27	2.2	3H		12.3B	
	5.5A						5.6E			
0.69 - 0.91	5.4A	0.327A								
1.17 - 1.24	5.2A	0.408A	0.82H	3	0.15	2	1.4H		8.6B	
							2.6E			
1.9 - 1.98	5A	0.554A	1.4H	4.3	0.31	3.3	4.1H		15B	
							5.7E			

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 - 0.05		3.3D		0.012D	0.193A			0	24B	46	15	8
0.05 - 0.15		0.89D		0.006D	0.064A							
0.15 - 0.23		0.39D		0.004D	0.035A			0	26D	49	19	6
0.23 - 0.25		0.37D										
0.28 - 0.41		0.74D		0.006D	0.073A			7	15D	26	7	54
0.41 - 0.56								2	15D	27	11	49
0.56 - 0.69								8	22D	37	7	35
0.69 - 0.91												
1.17 - 1.24								42	33D	44	5	16
1.9 - 1.98								18	17D	38	5	36

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 - 0.05									
0.05 - 0.15									
0.15 - 0.23									
0.23 - 0.25									
0.28 - 0.41									
0.41 - 0.56									
0.56 - 0.69									
0.69 - 0.91									
1.17 - 1.24									
1.9 - 1.98									

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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