Project Name: National Soil Fertility
Project Code: NSF **Site ID:** SW30 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By: Thompson, Jim
Date Desc.: 15/07/69
Map Ref.: Sheet No. : 6629 1:100000
Northing/Long.: 138.766666666667
Easting/Lat.: -34.3
Locality:
Elevation: No Data
Rainfall: 0
Runoff: No Data
Drainage: Well drained

Geology

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

Land Form

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

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
N/A
ASC Confidence:
Confidence level not specified
Mapping Unit: N/A
Principal Profile Form: Dr2.23
Great Soil Group: Red-brown earth

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

0 - 0.05 m	Dark red (2.5YR3/6-Moist); ; Clay loam; 2-5 mm; FragmentRough-ped fabric; Weak consistence; 0-2%, coarse fragments;
0.05 - 0.1 m	Dark reddish brown (2.5YR3/4-Moist); ; Light clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Rough-ped fabric; Very strong consistence; 0-2%, coarse fragments;
0.1 - 0.2 m	Dark reddish brown (2.5YR3/4-Moist); ; Light clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Rough-ped fabric; Very strong consistence; 0-2%, coarse fragments;
0.2 - 0.3 m	Dark reddish brown (2.5YR3/4-Moist); ; Light clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Rough-ped fabric; Very strong consistence; 0-2%, coarse fragments;
0.3 - 0.4 m	Dark reddish brown (2.5YR3/4-Moist); ; Light clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Rough-ped fabric; Very strong consistence; 0-2%, coarse fragments; Soil matrix is Highly calcareous;
0.4 - 0.5 m	Dark reddish brown (2.5YR3/4-Moist); ; Medium clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Rough-ped fabric; Very strong consistence; 0-2%, coarse fragments; Soil matrix is Highly calcareous;
0.5 - 0.6 m	Dark reddish brown (2.5YR3/4-Moist); ; Medium clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Rough-ped fabric; Strong consistence; 0-2%, coarse fragments; Soil matrix is Highly calcareous;
0.6 - 0.7 m	Dark red (2.5YR3/6-Moist); ; Medium clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Rough-ped fabric; Strong consistence; 0-2%, coarse fragments; Soil matrix is Highly calcareous;
0.7 - 0.8 m	Yellowish red (5YR4/6-Moist); ; Light clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Strong consistence; Very few (0 - 2 %), Calcareous, , ; Soil matrix is Highly calcareous;
0.8 - 0.9 m	Yellowish red (5YR4/6-Moist); ; Light clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Strong consistence; Common (10 - 20 %), Calcareous, , ; Soil matrix is Highly calcareous;

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0.9 - 1 m	Yellowish red (5YR4/6-Moist); ; Light clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Strong consistence; Common (10 - 20 %), Calcareous, , ; Soil matrix is Highly calcareous;

Morphological Notes

Observation Notes

SW69/W29 NOW SW30;3 PROFILES DESCRIBED AT THIS SITE THIS DESCRIPTION IS FROM CORE 1; DATA IS FROM BULK OF 8
CORES;

Site Notes

TARLEE

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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 - 0.1	7.8I	0.32D								
0.1 - 0.2	8.3I	0.36D								
0.2 - 0.3	8.6I	0.37D								
0.3 - 0.4	9I	0.43D								
0.4 - 0.5	8.9I	0.64D								
0.5 - 0.6	8.6I	1.01D								
0.6 - 0.7	9I	0.89D								
0.7 - 0.8	9I	0.93D								
0.8 - 0.9	9.1I	0.83D								
0.9 - 1	9.1I	0.9D								

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 - 0.1	0.5C				0.094A		1.00		5C	44	20	30
0.1 - 0.2	0.7C				0.083A		1.60		4C	29	13	48
0.2 - 0.3	2.5C				0.075A		1.50					
0.3 - 0.4	25.4C						1.50					
0.4 - 0.5	27.2C						1.50					
0.5 - 0.6	35C				0.023A		1.50					
0.6 - 0.7	32.3C						1.50					
0.7 - 0.8	31.3C						1.50					
0.8 - 0.9	24.8C						1.60					
0.9 - 1	21.1C				0.013A		1.60		8C	33	12	25

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 - 0.1				0.29A				0.08A	
0.1 - 0.2				0.31A				0.13A	
0.2 - 0.3				0.4A				0.19A	
0.3 - 0.4				0.41A				0.2A	
0.4 - 0.5				0.37A				0.17A	
0.5 - 0.6				0.37A				0.17A	
0.6 - 0.7				0.35A				0.15A	
0.7 - 0.8				0.32A				0.14A	
0.8 - 0.9				0.31A				0.13A	
0.9 - 1				0.29A				0.12A	

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Laboratory Analyses Completed for this profile

19B_NR	Calcium Carbonate (CaCO3) - Not recorded
3_C_B	Electrical conductivity or soluble salts - Total soluble salts %
4A_C_2.5	pH of soil - pH of 1:2.5 soil/water suspension
5_C_B	Water soluble Chloride - Method recorded as B
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
MIN_EC	Exchange Capacity - Minerology
P10_NR_C	Clay (%) - Not recorded
P10_NR_CS	Coarse sand (%) - Not recorded
P10_NR_FS	Fine sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded
P3A_NR	Bulk density - Not recorded
P3B_NR_01	0.1 BAR Moisture % - Not recorded
P3B_NR_15	15 BAR Moisture % - Not recorded
XRD_C_Hm	Hematite - X-Ray Diffraction
XRD_C_Il	Illite - 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