Project Name: National Soil Fertility
Project Code: NSF **Site ID:** SW41 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By: Coppi, John
Date Desc.: 14/04/70
Map Ref.: Sheet No. : 6029 1:100000
Northing/Long.: 135.95
Easting/Lat.: -34.25
Locality:
Elevation: No Data
Rainfall: 0
Runoff: No Data
Drainage: No Data

Geology

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

Land Form

Rel/Slope Class: No Data
Morph. Type: No Data
Elem. Type: No Data
Slope: %
Pattern Type: No Data
Relief: No Data
Slope Category: No Data
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: Dr3.43
Great Soil Group: N/A

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

0 - 0.1 m	Dark reddish brown (5YR3/2-Moist); ; Clayey sand; Massive grade of structure; Very weak consistence; 0-2%, Quartz, coarse fragments;
0.1 - 0.2 m	Light brown (7.5YR6/4-Moist); ; Clayey sand; Massive grade of structure; Very weak consistence; 0-2%, Quartz, coarse fragments;
0.2 - 0.3 m	Yellowish red (5YR4/6-Moist); ; Light clay; Strong grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Very strong consistence; 0-2%, Quartz, coarse fragments;
0.3 - 0.4 m	Brown (7.5YR5/4-Moist); ; Light clay; Strong grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Very strong consistence; 0-2%, Quartz, coarse fragments;
0.4 - 0.5 m	Brown (7.5YR5/4-Moist); ; Light clay; Strong grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Very strong consistence; 0-2%, Quartz, coarse fragments;
0.5 - 0.6 m	Very pale brown (10YR7/3-Moist); ; Light clay; Strong grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Very strong consistence; 0-2%, Quartz, coarse fragments; Soil matrix is Moderately calcareous;
0.6 - 0.7 m	Very pale brown (10YR7/3-Moist); ; Light clay; Strong grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Very strong consistence; 0-2%, Quartz, coarse fragments; Soil matrix is Moderately calcareous;
0.7 - 0.8 m	Yellow (10YR7/6-Moist); ; Light clay; Massive grade of structure; Very strong consistence; 0-2%, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, , Nodules; Soil matrix is Highly calcareous;
0.8 - 0.9 m	Yellow (10YR7/6-Moist); ; Light clay; Massive grade of structure; Very strong consistence; 0-2%, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, , Nodules; Soil matrix is Highly calcareous;
0.9 - 1.2 m	;

Morphological Notes

Observation Notes

SW70/W20; DATA IS FROM BULK OF 8 CORES;

Site Notes

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CUMMINS

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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	7.2l	0.33D								
0.1 - 0.2	7.2l	0.29D								
0.2 - 0.3	7l	0.44D								
0.3 - 0.4	7.6l	0.53D								
0.4 - 0.5	8.7l	0.77D								
0.5 - 0.6	9l	0.77D								
0.6 - 0.7	9.1l	0.83D								
0.7 - 0.8	9.1l	0.82D								
0.8 - 0.9	9.1l	0.86D								
0.9 - 1	9.2l	0.87D								

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	0C				0.085A				44C	36	5	13
0.1 - 0.2	0C				0.035A							
0.2 - 0.3	0C				0.03A				25C	23	6	43
0.3 - 0.4	0C											
0.4 - 0.5	2.3C											
0.5 - 0.6	5.5C				0.017A							
0.6 - 0.7	7C											
0.7 - 0.8	3.8C											
0.8 - 0.9	5.2C											
0.9 - 1	5.7C				0.005A				26C	15	7	44

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										
0.1 - 0.2										
0.2 - 0.3										
0.3 - 0.4										
0.4 - 0.5										
0.5 - 0.6										
0.6 - 0.7										
0.7 - 0.8										
0.8 - 0.9										
0.9 - 1										

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Laboratory Analyses Completed for this profile

19B_NR	Calcium Carbonate (CaCO3) - Not recorded
2A1	Air-dry moisture content
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
XRD_C_Is	Interstratified clay minerals - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction