National Soil Fertility Project Name:

Project Code: NSF Site ID: SP10 Observation ID: 1

Agency Name: **CSIRO Division of Soils (SA)**

Site Information

Thompson, Jim Locality:

Desc. By: Date Desc.: Elevation: 23/12/71 2 metres Sheet No.: 7024 Map Ref.: 1:100000 Rainfall: 510 Northing/Long.: 140.5 Runoff: No Data Easting/Lat.: -36.6166666666667 Drainage: Well drained

Geology

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

Land Form

Rel/Slope Class: No Data No Data Pattern Type: Morph. Type: Elem. Type: Mid-slope Relief: No Data No Data **Slope Category:** No Data 270 degrees Slope: 0 % Aspect:

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Principal Profile Form: Dr2.13

ASC Confidence: Great Soil Group: Terra rossa soil

Confidence level not specified

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

Vegetation:

Surface Coarse Fragments:

Profile Morphology

0 - 0.1 m	Reddish brown (5YR4/4-Moist); ; Loamy sand; Massive grade of structure; Weak consistence;
0.1 - 0.2 m	Reddish brown (5YR4/4-Moist); ; Loamy sand; Massive grade of structure; Strong consistence; 0-2%, Gravel, coarse fragments;
0.2 - 0.3 m	Yellowish red (5YR4/8-Moist); ; Loamy sand; Massive grade of structure; Strong consistence;
0.3 - 0.4 m	Yellowish red (5YR4/8-Moist); ; Heavy clay; Strong grade of structure, 2-5 mm; Very strong consistence;
0.4 - 0.5 m	Yellowish red (5YR4/8-Moist); ; Heavy clay; Strong grade of structure, 2-5 mm; Very strong consistence;
0.5 - 0.6 m	Yellowish red (5YR4/8-Moist); ; Heavy clay; Strong grade of structure, 2-5 mm; Very strong consistence;
0.6 - 0.7 m	Yellowish red (5YR4/8-Moist); ; Heavy clay; Strong grade of structure, 2-5 mm; Very strong consistence;
0.7 - 0.8 m	Yellowish red (5YR4/6-Moist); ; Heavy clay; Strong grade of structure, 2-5 mm; Very strong consistence;
0.8 - 0.9 m	Strong brown (7.5YR5/6-Moist); , 10YR66, 2-10% , Faint; , 2-10% , Faint; Heavy clay; Strong grade of structure, 2-5 mm; Very strong consistence; Very few (0 - 2 %), Ferruginous, , Nodules; Very few (0 - 2 %), Calcareous, , Nodules; Soil matrix is Highly calcareous;
0.9 - 1 m	Strong brown (7.5YR5/6-Moist); , 10YR66, 2-10% , Faint; , 2-10% , Faint; Heavy clay; Strong grade of structure, 2-5 mm; Very strong consistence; Many (20 - 50 %), Calcareous, , Nodules; Soil matrix is Highly calcareous;

Morphological Notes

Observation Notes

ORIGINALLY SP71/P2; CHEMICAL DATA IS FROM BULK OF 8 CORES;

Site Notes

PADTHAWAY

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Laboratory Test Results:

Depth	pН	1:5 EC		hangeable	Cations K	Na E	xchangeable Acidity	CEC	EC	EC	ESP
m		dS/m	Ca	Mg	ĸ	Cmol (+)/					%
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	6.4I 6.4I 6.3I 6.6I 7.1I 7.3I 7.7I 7.8I 7.9I 8.2I	0.29D 0.09D 0.11D 0.09D 0.16D 0.2D 0.3D 0.29D 0.27D 0.21D									
Depth m	CaCO3	Organic C %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	Pa GV			sis Clay
0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.4 0.4 - 0.5 0.5 - 0.6	0.3C 0.3C				0.11 0.03 0.07	BA BA			23C 6C		0 13 3 76
0.6 - 0.7 0.7 - 0.8 0.8 - 0.9 0.9 - 1	7.7C 22C 23.8C 31.4C				0.03				12C	8 :	3 53
Depth m	COLE	Sat.	Grav 0.05 Bar	0.1 Bar	lumetric W 0.5 Bar g - m3/m3	1 Bar		5 Bar	K sat	K un	
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

Air-dry moisture content

2A1 3_C_B Electrical conductivity or soluble salts - Total soluble salts %

4A_C_2.5 5_C_B pH of soil - pH of 1:2.5 soil/water suspension Water soluble Chloride - Method recorded as B 7A2 Total nitrogen - semimicro Kjeldahl , automated colour

MIN_EC Exchange Capacity - Minerology

P10_NR_C P10_NR_CS Clay (%) - Not recorded
Coarse sand (%) - Not recorded P10_NR_FS Fine sand (%) - Not recorded P10_NR_Z XRD_C_Hm Silt (%) - Not recorded Hematite - X-Ray Diffraction XRD_C_II Illite - X-Ray Diffraction

Interstratified clay minerals - X-Ray Diffraction

XRD_C_Is XRD_C_Ka XRD_C_Qz Kaolin - X-Ray Diffraction Quartz - X-Ray Diffraction