Project Name: 1968 ISSS Congress Tour
Project Code: IS5 **Site ID:** A970 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	G. Blackburn	**Locality:**	
Date Desc.:	05/05/66	**Elevation:**	No Data
Map Ref.:	Sheet No. : SJ54-2 1:250000	**Rainfall:**	560
Northing/Long.:	140.53333333	**Runoff:**	Moderately rapid
Easting/Lat.:	-36.85	**Drainage:**	No Data

Geology

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

Land Form

Rel/Slope Class:	No Data	**Pattern Type:**	Beach ridge plain
Morph. Type:	Ridge	**Relief:**	15 metres
Elem. Type:	Beach ridge	**Slope Category:**	No Data
Slope:	0 %	**Aspect:**	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Haplic Hypocalcic Red Kandosol
ASC Confidence:
All necessary analytical data are available.

Mapping Unit: N/A
Principal Profile Form: N/A
Great Soil Group: Terra rossa soil

Site Disturbance: No effective disturbance other than grazing by hoofed animals

Vegetation: Low Strata - Sod grass, , . *Species includes - None recorded
Tall Strata - Tree, 3.01-6m, . *Species includes - None Recorded

Surface Coarse Fragments:

Profile Morphology

0 - 0.1 m	Yellowish red (5YR4/6-Dry); ; Sandy loam; Massive grade of structure, 2-5 mm, Columnar; Coarse, (10 - 20) mm crack; Very firm consistence; Few (2 - 10 %), Calcareous, , Concretions; Common, very fine (0-1mm) roots;
0.1 - 0.2 m	Dark red (2.5YR3/6-Dry); ; Sandy loam; Massive grade of structure, 2-5 mm, Columnar; Very firm consistence; Few, very fine (0-1mm) roots;
0.2 - 0.3 m	Dark red (2.5YR3/6-Dry); ; Loamy sand; Massive grade of structure, 2-5 mm, Columnar; Firm consistence; Few
0.3 - 0.5 m	Dark red (2.5YR3/6-Dry); ; Sandy loam; Massive grade of structure, 2-5 mm, Columnar; Firm consistence; Very few (0 - 2 %), Calcareous, , ;
0.5 - 0.6 m	Dark red (2.5YR3/6-Dry); ; Sandy loam; Massive grade of structure, 2-5 mm, Columnar; Firm consistence; Sharp change to -
0.6 - 0.7 m	;
0.7 - 3.5 m	;

Morphological Notes

Observation Notes

30-70CM:CALCAREOUS MATERIAL WITH SOIL:

Site Notes

MACDONNELL

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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 - 0.1	5.9J 7.1A	0.132A	9.6B	0.9	0.52	0.15		45J		0.33
0.1 - 0.2	5.1J 6.9A	0.043A								
0.2 - 0.3	4.8J 6.8A	0.024A								
0.3 - 0.5	5.3J 7A	0.022A	4.1B	0.9	0.34	0.14		34J		0.41
0.5 - 0.6	5.4J 7.1A	0.27A	4.4B	1.1	0.24	0.13				
0.6 - 0.7										
3.5 - 3.5	7.2J	8.8C	0.004K							

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	0.39C	1.16A	9A	0.03A	0.12B	0.67A		0	18C	60	7	15
0.1 - 0.2				0.02A	0.061B	0.66A		0	17C	62	8	13
0.2 - 0.3												
0.3 - 0.5		0.349A	4A	0.02A	0.041B	0.69A		0	18C	60	7	15
0.5 - 0.6		0.407A	5A	0.02A	0.039B	0.64A		0	16C	61	6	17
0.6 - 0.7	88C											
3.5 - 3.5	0.018A	83E	7A	0.04A	0.058C	0.1A		0	10C	6	0	2

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 - 0.5									
0.5 - 0.6									
0.6 - 0.7									
3.5 - 3.5									

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Laboratory Analyses Completed for this profile

10A1	Total sulfur - X-ray fluorescence
15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded
15_NR_CEC	CEC - meq per 100g of soil - Not recorded
15A2_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_K	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_MG	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_NA	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
17A1	Total potassium - X-ray fluorescence
19A1	Carbonates - rapid titration
19B_NR	Calcium Carbonate (CaCO3) - Not recorded
2_LOI	Loss on Ignition (%)
2A1	Air-dry moisture content
3A_TSS	Electrical conductivity or soluble salts - Total soluble salts %
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
4B_C_2.5	pH of soil - pH of 1:2.5 Soil/0.1M CaCl2 suspension
5_C_B	Water soluble Chloride - Method recorded as B
5A2	Chloride - 1:5 soil/water extract, automated colour
6A1	Organic carbon - Walkley and Black
6Z	Organic carbon (%) - Not recorded
7_C_B	Total Nitrogen - method description not recorded
7_NR	Total nitrogen (%) - Not recorded
9A1	Total phosphorus - X-ray fluorescence
9B_9C	Available P (mg/kg) - Bicarbonate P - 0.5M NaHCO3 extractable
MIN_NR_K2O	Kaolin minerals
P10_GRAV	Gravel (%)
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_Hm	Hematite - X-Ray Diffraction
XRD_C_Il	Illite - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction