Project Name: MAP
Project Code: MAP **Site ID:** P688 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (WA)

Site Information

Desc. By:	G.M. Dimmock	**Locality:**	24KM west of Manjimup: in 50M X 50M plot south of Jimmy's Road:
Date Desc.:	29/04/77	**Elevation:**	210 metres
Map Ref.:	Sheet No. : 2029 1:100000	**Rainfall:**	1250
Northing/Long.:	115.883333333333	**Runoff:**	Rapid
Easting/Lat.:	-34.25	**Drainage:**	Imperfectly drained

Geology

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

Land Form

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

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Ferric Mesotrophic Red Chromosol
ASC Confidence:
No analytical data are available but confidence is fair.

Mapping Unit: N/A
Principal Profile Form: Dr5.62
Great Soil Group: Red podzolic soil

Site Disturbance: Extensive clearing, for example poisoning, ringbarking

Vegetation:

Surface Coarse Fragments:

Profile Morphology

0 - 0.05 m	Dark brown (7.5YR3/2-Moist); , 5YR44; Sandy loam; Massive grade of structure, Prismatic; 50-90%, medium gravelly, 6-20mm, angular, Substrate material, coarse fragments; Abundant, fine (1-2mm) roots;
0.05 - 0.1 m	Dark reddish brown (5YR3/3-Moist); ; Sandy loam; Massive grade of structure, Platy; 50-90%, medium gravelly, 6-20mm, angular, Substrate material, coarse fragments; Common, very fine (0-1mm) roots;
0.1 - 0.2 m	Reddish brown (5YR4/4-Moist); ; Sandy clay loam; Massive grade of structure, Prismatic; 50-90%, coarse gravelly, 20-60mm, angular, Substrate material, coarse fragments; Common, very fine (0-1mm) roots;
0.2 - 0.3 m	Yellowish red (5YR4/6-Moist); ; Sandy clay loam; Massive grade of structure, Prismatic; 50-90%, medium gravelly, 6-20mm, angular, Substrate material, coarse fragments; Few, coarse (>5mm) roots;
0.3 - 0.6 m	Red (2.5YR4/6-Moist); ; Sandy clay loam (Heavy); Massive grade of structure, Cast; 50-90%, medium gravelly, 6-20mm, angular, Substrate material, coarse fragments; Common, coarse (>5mm) roots;
0.6 - 0.9 m	Red (2.5YR4/8-Moist); ; Medium clay; Massive grade of structure, Cast; 50-90%, coarse gravelly, 20-60mm, angular, Substrate material, coarse fragments; Few

Morphological Notes

Observation Notes

0-90CM AL GV IS FERRUGINOUS: 0-5CM <10% CHARCOAL ALSO: KARRI REGENERATING LAYERS RENUMBERED 15/10/92

Site Notes

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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 - 0.05	6.6A	0.021A	7.93K	1.74	0.32	0.27			10.3B	
0.05 - 0.1	6.8A	0.009A	5.11K	1.24	0.23	0.09			6.7B	
0.1 - 0.2	6.8A	0.006A	3.46K	0.78	0.15	0.03			4.4B	
0.2 - 0.3	6.7A	0.003A	1.89K	0.49	0.1	0.03			2.5B	
0.3 - 0.6	6.7A	0.003A	2.33K	0.37	0.09	0.04			2.8B	
0.6 - 0.9	6.7A	0.003A	1.88K	0.16	0.13	0.01			2.2B	

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		8.3D	8.3D	0.011D 0.021A	0.207B	0.069A		45				
0.05 - 0.1		4.09D	5.6D	0.008D 0.019A	0.131B	0.057A		49				
0.1 - 0.2		2.78D	2.5D	0.007D 0.016A	0.08B	0.055A		44				
0.2 - 0.3		2.02D	2.5D	0.006D 0.013A	0.052B	0.054A		46				
0.3 - 0.6		1.89D	1D	0.003D 0.011A	0.038B	0.048A		33				
0.6 - 0.9		1.14D	1D	0.003D 0.01A	0.027B	0.028A		12				

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 - 0.1										
0.1 - 0.2										
0.2 - 0.3										
0.3 - 0.6										
0.6 - 0.9										

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Laboratory Analyses Completed for this profile

10A1	Total sulfur - X-ray fluorescence
10B	Extractable sulfur(mg/kg) - Phosphate extractable sulfur
12_XRF_CU	Total element - Cu(mg/kg) - X-Ray Fuoresence
12_XRF_FE	Total element - Fe(%) - X-Ray Fuoresence
12_XRF_MN	Total element - Mn(mg/kg) - X-Ray Fuoresence
12_XRF_ZN	Total element - Zn(mg/kg) - X-Ray Fuoresence
12B1_CU	Ammonium bicarbonate/EDTA - extractable copper
12B1_ZN	Ammonium bicarbonate/EDTA - extractable zinc
15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded
15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15_NR_MG	Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
15_NR_NA	Exch. basic cations (Na++) - meq per 100g of soil - Not recorded
15J_H	Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen)
17A1	Total potassium - X-ray fluorescence
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
7_NR	Total nitrogen (%) - Not recorded
9A_HCL	Total element - P(%) - By boiling HCl
9A1	Total phosphorus - X-ray fluorescence
9E	Available P (mg/kg) - Bray P
P10_GRAV	Gravel (%)
TE_XRF_MG	Total Element Mg - By XRF
TE_XRFCA	Total Element Ca - By XRF
TE_XRFTIO2	Total Element TiO2 - By XRF