Project Name: COB
Project Code: COB **Site ID:** P713 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (WA)

Site Information

Desc. By:	G.M. Dimmock	**Locality:**	13KM east of Jarrahdale: Forests Dept. map sheef ref. BS70 (26M on 263degrees E5250-N3300):
Date Desc.:	30/10/80	**Elevation:**	330 metres
Map Ref.:	Sheet No. : 2133 1:100000	**Rainfall:**	1200
Northing/Long.:	116.2	**Runoff:**	Rapid
Easting/Lat.:	-32.3333333333334	**Drainage:**	Imperfectly drained

Geology

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

Land Form

Rel/Slope Class:	No Data	**Pattern Type:**	No Data
Morph. Type:	Upper-slope	**Relief:**	No Data
Elem. Type:	Hillslope	**Slope Category:**	Gently inclined
Slope:	8.8 %	**Aspect:**	225 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Ferric Dystrophic Red Chromosol
ASC Confidence:
All necessary analytical data are available.

Mapping Unit: N/A
Principal Profile Form: Dy5.62
Great Soil Group: Lateritic podzolic soil

Site Disturbance:

Vegetation:
Low Strata - , , . *Species includes - None recorded
Mid Strata - Tree, , Closed or dense. *Species includes - None recorded
Tall Strata - Tree, , . *Species includes - None Recorded

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.05 m	Very dark greyish brown (10YR3/2-Moist); ; Sandy loam (Fibric); 90-100%, coarse gravelly, 20-60mm, angular, Substrate material, coarse fragments; Abundant, fine (1-2mm) roots;
A12	0.05 - 0.1 m	Brown (7.5YR4/4-Moist); ; Sandy loam; 90-100%, coarse gravelly, 20-60mm, angular, Substrate material, coarse fragments; Common, coarse (>5mm) roots;
A21	0.1 - 0.2 m	Brown (7.5YR5/4-Moist); ; Sandy loam (Light); 90-100%, fine gravelly, 2-6mm, rounded, Substrate material, coarse fragments; Abundant, fine (1-2mm) roots;
A22	0.2 - 0.3 m	Brown (7.5YR5/4-Moist); ; Loamy sand; 90-100%, fine gravelly, 2-6mm, rounded, Substrate material, coarse fragments; Common, medium (2-5mm) roots;
A23	0.3 - 0.5 m	Brown (7.5YR5/4-Moist); ; Loamy sand; 90-100%, fine gravelly, 2-6mm, rounded, Substrate material, coarse fragments; Common, medium (2-5mm) roots;
B1	0.53 - 0.7 m	Yellowish red (5YR5/6-Moist); ; Sandy clay loam; 50-90%, fine gravelly, 2-6mm, rounded, Substrate material, coarse fragments; Few, fine (1-2mm) roots;
B21	0.7 - 0.8 m	Red (2.5YR4/8-Moist); , 5YR56; Sandy medium clay (Light); 50-90%, coarse gravelly, 20-60mm, Gravel, coarse fragments; Few, fine (1-2mm) roots;
B22	0.8 - 1 m	Red (2.5YR4/8-Moist); , 5YR56; Light clay; 10-20%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Few, fine (1-2mm) roots;

Morphological Notes

Observation Notes

0-70CM AL GV IS FE:10-70CM COARSER FE GV GRADING FROM (<30% <30MM) TO (<2% <20MM) DECREASING:70-100CM PIPES OF B1 HOR:

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations Ca	Mg	K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.05	6A	0.06A	13K	4.89	0.66	0.67			19.2B	
0.05 - 0.1	6.3A	0.022A	5.67K	1.95	0.23	0.19			8B	
0.1 - 0.2	6.3A	0.015A	1.22K	0.54	0	0.07			1.8B	
0.2 - 0.3	6.3A	0.009A	0.72K	0.29	0	0.03			1B	
0.3 - 0.5	6.2A	0.009A	0.88K	0.3	0	0.04			1.2B	
0.53 - 0.7	6.5A	0.009A	0.86K	0.21	0.06	0			1.1B	
0.7 - 0.8	6.7A	0.012A	0.78K	0.23	0.06	0.02			1.1B	
0.8 - 1	6.6A	0.012A	0.61K	0.14	0.06	0.03			0.8B	

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		14.8D	15.7D	0.009D	0.239B	0.19A		84	38D	33	12	7
				0.034A								
0.05 - 0.1		5.89D	7.3D	0.003D	0.128B	0.19A		84	41D	37	10	9
				0.016A								
0.1 - 0.2		2.11D	2.8D	0.002D	0.044B	0.16A		93	45D	41	11	5
				0.009A								
0.2 - 0.3		1.19D	1.9D	0.001D	0.021B	0.16A		65	46D	41	10	6
				0.009A								
0.3 - 0.5		1.11D	1.7D	0D	0.019B	0.19A		60	39D	44	11	8
				0.005A								
0.53 - 0.7		1.11D	2.5D	0D	0.013B	0.14A		59	42D	30	11	17
				0.009A								
0.7 - 0.8		0.85D	2D	0D	0.018B	0.09A		49	25D	22	14	37
				0.008A								
0.8 - 1		0.66D	1.8D	0D	0.006B	0.07A		59	20D	22	18	39
				0.008A								

Depth	COLE	Gravimetric/Volumetric Water Contents Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	K sat	K unsat
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 - 0.5										
0.53 - 0.7										
0.7 - 0.8										
0.8 - 1										

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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
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 (%)
P10_PB_C	Clay (%) - Plummet balance
P10_PB_CS	Coarse sand (%) - Plummet balance
P10_PB_FS	Fine sand (%) - Plummet balance
P10_PB_Z	Silt (%) - Plummet balance
TE_XRF_MG	Total Element Mg - By XRF
TE_XRFCA	Total Element Ca - By XRF
TE_XRFTIO2	Total Element TiO2 - By XRF