

Project Name: SOU
Project Code: SOU **Site ID:** P746 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (WA)

Site Information

Desc. By:	H.M. Churchwood	Locality:	At Forest Hill District Hall south side Muir Highway: MJ 140 distance peg:
Date Desc.:	04/11/82	Elevation:	No Data
Map Ref.:	Sheet No. : 2328 1:100000	Rainfall:	0
Northing/Long.:	117.433333333333	Runoff:	No Data
Easting/Lat.:	-34.65	Drainage:	No Data

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	Pattern Type:	Plain
Morph. Type:	Simple-slope	Relief:	No Data
Elem. Type:	Plain	Slope Category:	Very gently sloped
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Ferric Dystrophic Yellow Kandosol		Principal Profile Form:	Dy3.61
ASC Confidence:		Great Soil Group:	N/A
Analytical data are incomplete but reasonable confidence.			

Site Disturbance: No effective disturbance. Natural

Vegetation:

Surface Coarse Fragments:

Profile Morphology

0 - 0.05 m	Very dark grey (10YR3/1-Moist); ; Loamy sand; Single grain grade of structure; Very weak consistence; 0-2%, Substrate material, coarse fragments;
0.05 - 0.1 m	Brown (10YR5/3-Moist); ; Loamy sand; Single grain grade of structure; Very weak consistence; 0-2%, Substrate material, coarse fragments;
0.1 - 0.2 m	Yellowish brown (10YR5/4-Moist); ; Sandy loam (Light); Massive grade of structure; Very weak consistence; 2-10%, Substrate material, coarse fragments;
0.3 - 0.4 m	Light yellowish brown (10YR6/4-Moist); ; Sandy loam (Light); Massive grade of structure; Very weak consistence; 20-50%, Substrate material, coarse fragments;
0.5 - 0.6 m	Light yellowish brown (10YR6/4-Moist); ; Sandy light clay (Light); Massive grade of structure; Strong consistence; 20-50%, Substrate material, coarse fragments;
0.6 - 0.7 m	Yellow (10YR7/6-Moist); , 10YR68; Light medium clay; Weak grade of structure, 5-10 mm, Angular blocky; Firm consistence; 10-20%, Substrate material, coarse fragments;
0.8 - 0.9 m	Brownish yellow (10YR6/8-Moist); , 10YR76; Medium clay; Weak grade of structure, 5-10 mm, Angular blocky; Firm consistence; 10-20%, Substrate material, coarse fragments;

Morphological Notes

Observation Notes

0-90CM GRAVELS FERRUGINISED:SHARP CHANGE AT 45-50CM:

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.05	6.1A	0.006A	2.51K	1.32	0.31	0.36				
0.1 - 0.2	6.6A	0.003A								
0.5 - 0.6	6.3A	0.006A	0.24K	0.81	0.13	0.22				
0.6 - 0.7	6.1A	0.006A								
0.8 - 0.9	5.8A	0.009A	0.17K	1.28	0.1	0.37				

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.05		8.6D										
0.1 - 0.2												
0.5 - 0.6												
0.6 - 0.7												
0.8 - 0.9								14D	24	12	50	

Depth	COLE	Sat.	Gravimetric/Volumetric Water Contents	K sat	K unsat
m			0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15 Bar	mm/h	mm/h
			g/g - m3/m3		
0 - 0.05					
0.1 - 0.2					
0.5 - 0.6					
0.6 - 0.7					
0.8 - 0.9					

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Laboratory Analyses Completed for this profile

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
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
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