

Project Name: SWV
Project Code: SWV **Site ID:** P109 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (WA)

Site Information

Desc. By:	L.W. Pym	Locality:	~20 chains south of north boundary fence and about 8 chains east of Swan River:
Date Desc.:	23/10/51	Elevation:	8 metres
Map Ref.:	Sheet No. : 2134 1:100000	Rainfall:	0
Northing/Long.:	116.001944444444	Runoff:	Moderately rapid
Easting/Lat.:	-31.8338888888889	Drainage:	Well drained

Geology

Exposure Type:	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:	Alluvial plain
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	No Data	Slope Category:	Level
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Eutrophic Brown Kandosol		Principal Profile Form:	N/A
ASC Confidence:		Great Soil Group:	Alluvial soil
No analytical data are available but confidence is fair.			

Site Disturbance: Complete clearing. Pasture, native or improved, but never cultivated

Vegetation:

Tall Strata - Tree, , . *Species includes - None Recorded

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.05 m	Dark greyish brown (2.5Y4/2-Moist); ; Sandy clay loam; Massive grade of structure; Dry; Very firm consistence; Field pH 5 (pH meter); Diffuse change to -
A2	0.05 - 0.28 m	Very dark brown (10YR2/2-Moist); ; Silty clay loam; Massive grade of structure; Dry; Very strong consistence; Field pH 5 (pH meter); Diffuse, Wavy change to -
A3	0.28 - 0.61 m	Brown (7.5YR4/4-Moist); ; Medium clay; Massive grade of structure; Dry; Firm consistence; Field pH 5 (pH meter); Diffuse, Smooth change to -
D1	0.61 - 0.91 m	Dark brown (10YR3/3-Moist); ; Loamy sand; Single grain grade of structure; Moist; Weak consistence; Field pH 5 (pH meter);
D2	1.02 - 1.27 m	Light brownish grey (2.5Y6/2-Moist); ; Sand; Single grain grade of structure; Moist; Loose consistence; Field pH 5.5 (pH meter);
D3	1.27 - 1.57 m	(N3/0-Moist); , 2.5YR48; Loamy sand; Moist; Weak consistence; Field pH 5 (pH meter);
D4	1.57 - 1.88 m	(N3/0-Moist); , 2.5YR48; Silty medium clay; Moist; Moderately plastic; Normal plasticity; Field pH 4 (pH meter);

Morphological Notes

Observation Notes

102-127CM MICACEOUS SAND:

Site Notes

SOUTH-WEST LD

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Laboratory Test Results:

Depth m	pH	1:5 EC	Exchangeable Cations				CEC	ECEC	ESP
		dS/m	Ca	Mg	K	Na	Exchangeable Acidity Cmol (+)/kg		%
0 - 0.05	5.6A	0.155A	11.3K	8.1	1.3	0.44		21.1B	
0.05 - 0.28	5.5A	0.083A		0.2					
0.28 - 0.61	5.5A	0.045A	5.9K	4.5	0.26	0.32		11B	
0.61 - 0.91	5.6A	0.027A							
1.02 - 1.27	5.8A	0.018A							
1.27 - 1.57	4.9A	0.036A	0.9K	1	0.07	0.16		2.1B	
1.57 - 1.88	4.7A	0.09A							

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
0.05 - 0.28
0.28 - 0.61
0.61 - 0.91
1.02 - 1.27
1.27 - 1.57
1.57 - 1.88

[illegible]

0 - 0.05
0.05 - 0.28
0.28 - 0.61
0.61 - 0.91
1.02 - 1.27
1.27 - 1.57
1.57 - 1.88

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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
15J_H	Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen)
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