

Project Name: LSG
Project Code: LSG **Site ID:** CP79 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	J.R. Sleeman	Locality:	Northcott Dve. site 1
Date Desc.:	01/04/77	Elevation:	650 metres
Map Ref.:	Sheet No. : S155-16 1:250000	Rainfall:	640
Northing/Long.:	149.166666666667	Runoff:	Very slow
Easting/Lat.:	-35.266666666667	Drainage:	Poorly drained

Geology

ExposureType:	Undisturbed soil core	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Undisturbed soil core, Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	Gently undulating rises 9-30m 1-3%	Pattern Type:	Hills
Morph. Type:	Mid-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	Gently inclined
Slope:	1 %	Aspect:	210 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Melanic Eutrophic Yellow Chromosol		Principal Profile Form:	Dy2.82
ASC Confidence:		Great Soil Group:	Yellow podzolic soil
All necessary analytical data are available.			

Site Disturbance: No effective disturbance. Natural

Vegetation:

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

Surface Coarse Fragments:

Profile Morphology

AC	0 - 0.2 m	Dark brown (7.5YR3/2-Moist); ; Fine sandy loam; Massive grade of structure; Sandy (grains prominent) fabric; Few (<1 per 100mm2) macropores, Very firm consistence; Field pH 6.3 (pH meter); Clear change to -
2A1	0.2 - 0.34 m	Very dark greyish brown (10YR3/2-Moist); Brown (10YR5/3-Dry); , 10YR71, 20-50% ; , 20-50% ; Silty loam; Massive grade of structure; Sandy (grains prominent) fabric; Few (<1 per 100mm2) macropores, Very firm consistence; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Nodules; Field pH 6.4 (pH meter); Clear change to -
2A1	0.34 - 0.41 m	Very dark greyish brown (10YR3/2-Moist); Brown (10YR5/3-Dry); , 10YR71, 20-50% ; , 20-50% ; Silty loam; Massive grade of structure; Sandy (grains prominent) fabric; Few (<1 per 100mm2) macropores, Very firm consistence; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Nodules; Field pH 6.4 (pH meter); Clear change to -
2A3	0.41 - 0.48 m	Brown (10YR4/3-Moist); Pale brown (10YR6/3-Dry); ; Clay loam; Massive grade of structure; Sandy (grains prominent) fabric; Very strong consistence; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Nodules; Field pH 6.4 (pH meter); Abrupt change to -
2B21	0.48 - 0.6 m	Reddish yellow (7.5YR6/8-Moist); Dark yellowish brown (10YR3/4-Dry); ; Medium clay; Massive grade of structure; Very strong consistence; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Field pH 6.7 (pH meter); Gradual change to -
2B22	0.6 - 0.85 m	Greyish brown (10YR5/2-Moist); Brownish yellow (10YR6/6-Dry); ; Medium clay; Massive grade of structure; Earthy fabric; Very strong consistence; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Field pH 6.9 (pH meter);
2B23	0.85 - 1 m	Greyish brown (10YR5/2-Moist); Brownish yellow (10YR6/6-Dry); ; Medium clay; Massive grade of structure; Very strong consistence;

Morphological Notes

Observation Notes

48-60CM LUSTOUS FACES:COLLUVIUM:

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity		%
						Cmol (+)/kg			
0 - 0.2	6.3A	0.05A	5.2K	6.2	0.21	0.21	12.2B	24J	0.88
0.2 - 0.34	6.4A	0.03A	3.8K	5.7	0.08	0.17	8.9B	18.7J	0.91
0.34 - 0.41	6.4A	0.03A	2.3K	4.8	0.06	0.13	4.9B	12.2J	1.07
0.41 - 0.48	6.4A	0.03A	2K	5.4	0.07	0.22	4.7B	12.4J	1.77
0.48 - 0.6	6.7A	0.03A	2.2K	8.7	0.14	0.38	9.2B	20.7J	1.84
0.6 - 0.85	6.9A	0.04A	2.1K	8.9	0.17	0.64	9.9B	21.7J	2.95

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.2		2.74D			0.18B			28	5D	32	35	22
0.2 - 0.34		1.51D			0.116B			1	3D	39	35	20
0.34 - 0.41		0.8D			0.06B			3	6D	43	33	16
0.41 - 0.48		0.64D			0.052B			9	6D	42	30	22
0.48 - 0.6		0.65D			0.06B			9	5D	30	23	42
0.6 - 0.85		0.31D			0.018B			13	5D	27	28	46

[illegible]

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Laboratory Analyses Completed for this profile

13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
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
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
15G_C_AL1	Exchangeable aluminium - meq per 100g of soil - Aluminium By difference of C and A or B
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
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