Project Name: Project Code: Agency Name:	LSG LSG Site ID: CSIRO Division of Soils (A		Observation ID: 1			
<u>Site Informatio</u> Desc. By:	<u>n</u> J.R. Sleeman	Locality:	30M upstream of Fairburn Ave.bridge(west bank)site 3:			
Date Desc.: Map Ref.: Northing/Long.: Easting/Lat.:	01/04/77 Sheet No. : S155-16 1:250000 149.183333333333 -35.2833333333333	Elevation: Rainfall: Runoff: Drainage:	610 metres 640 Moderately rapid Moderately well drained			
<u>Geology</u> ExposureType: Geol. Ref.:	Undisturbed soil core No Data	Conf. Sub. is Pare Substrate Materia				
Land Form Rel/Slope Class: Morph. Type: Elem. Type: Slope:	Lower-slope Hillslope 4 %	Pattern Type: Relief: Slope Category: Aspect:	Hills No Data Gently inclined 210 degrees			
Surface Soil Co Erosion: Soil Classificat						
Australian Soil Classification:Mapping Unit:N/AMesotrophic Subnatric Red SodosolPrincipal Profile Form:Dy2.52ASC Confidence:Great Soil Group:Red earthAll necessary analytical data are available.Site Disturbance:Complete clearing. Pasture, native or improved, but never cultivated						
Vegetation: Surface Coarse	Low Strata - Sod grass, , . *Sp <b>Fragments:</b> 2-10%, fine gravell					
Profile Morpho A11 0 - 0.1 m	Brown (7.5YR4/4-Moist); ;   Few (<1 per 100mm2) ma	acropores, Dry; Firm o	e of structure; Sandy (grains prominent) fabric; consistence; 2-10%, fine gravelly, 2-6mm, 5.7 (pH meter); Clear change to -			
A12 0.1 - 0.3	(grains prominent) fabric; M	Dark reddish brown (5YR3/4-Moist); ; Loam (Heavy); Massive grade of structure; Sandy (grains prominent) fabric; Many (>5 per 100mm2) macropores, Dry; Firm consistence; 2-10%, coarse gravelly, 20-60mm, Substrate material, coarse fragments; Field pH 6.2 (pH meter); Clear change to -				
A2 0.3 - 0.4	Distinct; Clay loam; Massiv	Pink (7.5YR7/4-Moist); Reddish yellow (7.5YR6/6-Dry); , 5YR56, 20-50% , Distinct; , 20-50% , Distinct; Clay loam; Massive grade of structure; Sandy (grains prominent) fabric; Many (>5 per 100mm2) macropores, Dry; Very firm consistence; Field pH 6.7 (pH meter); Clear change to -				
В 0.42 - 0.0	5 m Yellowish red (5YR5/6-Moi Very strong consistence; Fi		assive grade of structure; Earthy fabric; Dry; r); Abrupt change to -			
0.6 - 0.74	of structure; Earthy fabric;	Yellowish red (5YR5/8-Moist); Brownish yellow (10YR6/8-Dry); ; Medium clay; Massive grade of structure; Earthy fabric; Very strong consistence; 20-50%, coarse gravelly, 20-60mm, angular, Substrate material, coarse fragments; Field pH 8 (pH meter); Clear change to -				
0.74 - 1	Massive grade of structure	Yellowish red (5YR5/6-Moist); , 5YR73, 20-50% , Distinct; , 20-50% , Distinct; Light clay; Massive grade of structure; Earthy fabric; Very strong consistence; , Manganiferous, , Soft segregations; Field pH 8.9 (pH meter);				
Morphological						
Observation No.	otes					

42-100CM SOME LUSTROUS CLAY FACES:COLLIUM: Site Notes

C'BERRA A'PORT

Project Name:	LSG			
Project Code:	LSG	Site ID:	CP83	
Agency Name:	CSIRO Division of Soils (ACT)			

Observation ID: 1

## Laboratory Test Results:

Depth	рН	1:5 EC		hangeable			Exchangeable	CEC		ECEC	E	SP
m		dS/m	Ca	Mg	К	Na Cmol (+	Acidity )/kg				Q	6
0 - 0.1	5.7A	0.05A	4.1K	1.5	0.38	0.13	9.2B	15.3	J		0	.85
0.1 - 0.3	6.2A	0.02A	3.6K	1.5	0.22	0.15	5.7B	11.3	J		1	.33
0.3 - 0.42	6.7A	0.02A	3.2K	2.5	0.11	0.38	7.3B	13.6	J		2	.79
0.42 - 0.6	7.1A	0.02A	2.9K	3.2	0.14	1	9.8B	17.1	J		5	.85
0.6 - 0.74	8A	0.06A	3.3K	5.6	0.17	2.1	4.8B	16.1	J		13	3.04
0.74 - 1	8.9A	0.16A	2.6K	6	0.17	2.6	3.6B	14J			18	8.57
Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Pa	rticle	Size	Analysis	
Deptil	04000	C	P	P	N	K	Density	GV	CS	FS	-	Clay
m	%	%	mg/kg	%	%	%	Mg/m3	0.		%	one	July
							0					
0 - 0.1		2.11D			0.17	'3B		6	14D	40	24	20
0.1 - 0.3		0.85D			0.06	57B		13	17D	37	24	22
0.3 - 0.42		0.47D			0.06	3B		4	9D	37	25	31
0.42 - 0.6		0.43D			0.05	4B		4	7D	32	21	44
0.6 - 0.74	0.03A	0.33D						26	9D	31	19	44
0.74 - 1	0.05A	0.12D						23	7D	30	25	39
Depth	COLE		Grav	/imetric/Vo					Ks	at	K unsat	
m		Sat.	0.05 Bar	0.1 Bar g/g	0.5 Bar g - m3/m3	1 Bar 3	5 Bar 15	Bar	mm	/h	mm/h	

0 - 0.1 0.1 - 0.3 0.3 - 0.42 0.42 - 0.6 0.6 - 0.74 0.74 - 1

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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
19A1	Carbonates - rapid titration
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