

**Project Name:** LSG  
**Project Code:** LSG      **Site ID:** CP84      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (ACT)

**Site Information**

<b>Desc. By:</b>	J.R. Sleeman	<b>Locality:</b>	Road crest cutting:road to Q'byn from airport:opp stockyard:site 5:
<b>Date Desc.:</b>	01/04/77	<b>Elevation:</b>	680 metres
<b>Map Ref.:</b>	Sheet No. : SI55-16    1:250000	<b>Rainfall:</b>	640
<b>Northing/Long.:</b>	149.216666666667	<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>	-35.316666666667	<b>Drainage:</b>	Imperfectly drained

**Geology**

<b>ExposureType:</b>	Undisturbed soil core	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	Undisturbed soil core, Slightly porous, Detrital sedimentary rock (unidentified)

**Land Form**

<b>Rel/Slope Class:</b>	Undulating low hills 30-90m 3-10%	<b>Pattern Type:</b>	Hills
<b>Morph. Type:</b>	Upper-slope	<b>Relief:</b>	30 metres
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	Moderately inclined
<b>Slope:</b>	6 %	<b>Aspect:</b>	315 degrees

**Surface Soil Condition (dry):** Soft

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Bleached Mesotrophic Red Chromosol		<b>Principal Profile Form:</b>	Dr2.41
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Red podzolic soil
All necessary analytical data are available.			

**Site Disturbance:** No effective disturbance other than grazing by hoofed animals

**Vegetation:** Low Strata - Sod grass, , . \*Species includes - None recorded  
Tall Strata - Tree, , . \*Species includes - None Recorded

**Surface Coarse Fragments:** 2-10%, medium gravelly, 6-20mm, , Gravel

**Profile Morphology**

A1	0 - 0.1 m	Dark brown (7.5YR3/2-Moist); ; Massive grade of structure; Sandy (grains prominent) fabric; Very weak consistence; 2-10%, medium gravelly, 6-20mm, Gravel, coarse fragments; Field pH 5.8 (pH meter);
A2	0.1 - 0.26 m	Light brown (7.5YR6/4-Moist); Pinkish yellow (7.5YR8/2-Dry); ; Massive grade of structure; Sandy (grains prominent) fabric; Very weak consistence; 20-50%, medium gravelly, 6-20mm, Gravel, coarse fragments; Field pH 6.1 (pH meter);
B21	0.26 - 0.55 m	Red (2.5YR4/8-Moist); , 10YR66, 2-10% , Distinct; , 2-10% , Distinct; Moderate grade of structure, Angular blocky; Very strong consistence; Field pH 6 (pH meter);
BC	0.55 - 0.8 m	Red (2.5YR4/8-Moist); , 10YR66, 2-10% , Distinct; , 2-10% , Distinct; Massive grade of structure; Earthy fabric; Very strong consistence; Field pH 6 (pH meter);
C	0.8 - 1 m	Light reddish brown (2.5YR6/4-Moist); ; Massive grade of structure; Earthy fabric; Very firm consistence; , , , Soft segregations; Field pH 6.2 (pH meter);

**Morphological Notes**

**Observation Notes**

ORDOVICIAN METASEDIMENTS UNDERLAIN BY MUDSTONE:>100CM HIGHLY WEATHERD MUDSTONE WITH CLAY FILL B/W FRAG'S:

**Site Notes**

C'BERRA A'PORT

**Observation ID: 1**

**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 - 0.1	5.8A	0.04A	3.9K	1.3	0.5	0.03	9.6B	15.3J	0.20
0.1 - 0.26	6.1A	0.01A	1.1K	0.59	0.14	0.04	2.2B	4J	1.00
0.26 - 0.55	6A	0.02A	0.48K	4.2	0.4	0.9	22.2B	28.2J	3.19
0.55 - 0.8	6A	0.02A	0.59K	6.7	0.27	1.5	21.6B	30.7J	4.89
0.8 - 1	6.2A	0.03A	1.4K	9.8	0.2	2	17.4B	30.9J	6.47

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 - 0.1		2.46D			0.113B			28	16D	48	13	18
0.1 - 0.26		0.34D			0.023B			11	22D	53	16	9
0.26 - 0.55		0.44D			0.064B			12	4D	11	9	83
0.55 - 0.8		0.2D						1	1D	4	11	92
0.8 - 1		0.17D						25	0D	5	16	83

[illegible]

**Project Name:** LSG  
**Project Code:** LSG      **Site ID:** CP84      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (ACT)

**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