Project Name: LSG

Project Code: LSG Site ID: CP71 Observation ID: 1

Agency Name: CSIRO Division of Soils (ACT)

Site Information

 Desc. By:
 P.H. Walker
 Locality:
 High terrace:

 Date Desc.:
 //
 Elevation:
 600 metres

 Map Ref.:
 Sheet No.: 8727
 1:100000
 Rainfall:
 640

 Northing/Long.:
 149.1861111111111
 Runoff:
 Very slow

Easting/Lat.: -35.3194444444445 Drainage: Moderately well drained

Geology

ExposureType: No Data Conf. Sub. is Parent. Mat.: No Data

Geol. Ref.: No Data Substrate Material: Porous, Unconsolidated material

(unidentified)

Land Form

Rel/Slope Class: Gently undulating plains <9m 1- Pattern Type: Terrace (alluvial)

3%

Morph. Type: Flat Relief: No Data

Elem. Type: Valley flat Slope Category: Very gently sloped Slope: 2 % Aspect: 125 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/ASodic Eutrophic Brown ChromosolPrincipal Profile Form:Dy

ASC Confidence: Great Soil Group: Yellow podzolic

All necessary analytical data are available.

Site Disturbance: Extensive clearing, for example poisoning, ringbarking

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.05 m	Dark brown (7.5YR3/3-Moist); ; Loamy sand; Massive grade of structure; Dry; Firm consistence; Field pH 5.5 (pH meter); Clear change to -
A12	0.05 - 0.1 m	Brown (7.5YR4/4-Moist); ; Loamy sand; Massive grade of structure; Dry; Very firm consistence; Field pH 5.6 (pH meter); Clear change to -
A2	0.1 - 0.2 m	Reddish brown (5YR4/4-Moist); , 7.5YR44, 2-10%; , 2-10%; Sandy loam; Massive grade of structure; Dry; Very firm consistence; Field pH 5.6 (pH meter); Gradual change to -
A2	0.2 - 0.25 m	Reddish brown (5YR4/4-Moist); Reddish yellow (7.5YR6/6-Dry); ; Sandy loam; Massive grade of structure; Dry; Very firm consistence; Field pH 5.9 (pH meter); Abrupt change to -
В	0.25 - 0.3 m	Reddish brown (2.5YR5/4-Moist); ; Medium clay; Massive grade of structure; Rough-ped fabric; Dry; Very strong consistence; Field pH 6.1 (pH meter); Clear change to -

B 0.3 - 0.4 m Yellowish brown (10YR5/6-Moist); , 10YR56, 0-2%; , 0-2%; Medium clay; Massive grade of structure; Rough-ped fabric; Dry; Very firm consistence; Field pH 6.5 (pH meter); Gradual change to -

B 0.4 - 0.5 m Light olive brown (2.5Y5/6-Moist); , 5YR56, 20-50%; , 10YR56, 20-50%; Medium clay; Massive grade of structure; Rough-ped fabric; Dry; Very strong consistence; Field pH 6.8 (pH meter); Gradual change to -

B 0.5 - 0.6 m Yellowish red (5YR4/6-Moist); , 2.5YR54, 20-50%; , 20-50%; Medium clay; Massive grade of structure; Rough-ped fabric; Dry; Very strong consistence; Few cutans, <10% of ped faces or walls coated, distinct; Very few (0 - 2 %), Manganiferous, , Soft segregations; Field pH 7 (pH meter): Clear change to -

BC 0.6 - 0.7 m Olive brown (2.5Y4/6-Moist); , 5YR46, 2-10%; , 2.5Y30, 2-10%; Heavy clay; Massive grade of structure; Dry; Very strong consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 7.3 (pH meter); Gradual change to -

BC 0.7 - 0.8 m Olive brown (2.5Y4/6-Moist); , 5YR46, 2-10%; , 2.5Y30, 2-10%; Heavy clay; Massive grade of structure; Dry; Very strong consistence; Field pH 7.8 (pH meter); Gradual change to -

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BC 0.8 - 0.9	Light olive brown (2.5Y5/4-Moist); , 5YR46, 2-10%; , 2.5Y30, 2-10%; Heavy clay; Weak grade of structure, 10-20 mm, Subangular blocky; Dry; Very strong consistence; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 8.2 (pH meter); Gradual change to -
BC 0.9 - 1 r	Light olive brown (2.5Y5/4-Moist); , 5YR58, 2-10%; , 2.5Y41, 2-10%; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Dry; Very strong consistence; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 8.4 (pH meter); Gradual change to -
C 1.1 - 1.2	Brown (7.5YR4/4-Moist); , 7.5YR58, 2-10%; , 2-10%; Heavy clay; Weak grade of structure, 10-20 mm, Angular blocky; Dry; Very strong consistence; Few cutans, <10% of ped faces or walls coated, distinct; Very few (0 - 2 %), Manganiferous, , Soft segregations; Field pH 8.6 (pH meter); Gradual change to -
C 1.3 - 1.4	Dark yellowish brown (10YR4/4-Moist); ; Heavy clay; Weak grade of structure, 10-20 mm, Angular blocky; Dry; Very strong consistence; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 8.8 (pH meter); Gradual change to -
C 1.4 - 1.5	Dark yellowish brown (10YR4/4-Moist); ; Heavy clay; Weak grade of structure, 10-20 mm, Angular blocky; Dry; Very strong consistence; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 8.8 (pH meter); Clear change to -
Ck 1.6 - 1.7	Brown (7.5YR4/4-Moist); , 2.5YR36, 2-10%; , 2.5YR42, 2-10%; Medium clay; Massive grade of structure; Dry; Very strong consistence; Common (10 - 20%), Gypseous, Very coarse (20 - 60 mm), Concretions; Field pH 9 (pH meter); Gradual change to -
Ck 1.7 - 1.8	Light olive grey (5Y6/2-Moist); , 7.5YR56, 2-10%; , 2-10%; Medium clay; Massive grade of structure; Dry; Very strong consistence; Few (2 - 10 %), Gypseous, Very coarse (20 - 60 mm), Concretions; Field pH 8.9 (pH meter); Gradual change to -
C 1.8 - 2 r	Light olive grey (5Y6/2-Moist); , 7.5YR56, 2-10%; , 2-10%; Medium clay; Massive grade of structure; Dry; Very strong consistence; Field pH 8.6 (pH meter);

Morphological Notes

Observation Notes
ALLUVIAL:BIOTIC TO 25CM:50-150CM LUSTRIOUS PED FACES:

Site Notes PIALLIGO

Observation ID: 1

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Laboratory			_								_	
Depth	pН	1:5 EC		changeable			Exchangeab	le CEC		ECEC	E	SP
m		dS/m	Ca	Mg	K	Na Cmol (Acidity +)/kg				9/	, 0
0 - 0.05	5.5A	<0.04A	1.8K	0.72	0.59	0	8B	11.1	J		0.	00
0.05 - 0.1	5.6A	<0.04A										
0.1 - 0.2	5.6A	<0.04A	2K	0.42	0.46	0	4.6B	7.6	J		0.	00
0.2 - 0.25	5.9A	<0.04A										
0.25 - 0.3	6.1A	<0.04A	6.1K	2.1	0.62	0.2	7.5B	16.5	J		1.	21
0.3 - 0.4	6.5A	<0.04A							_		_	
0.4 - 0.5	6.8A	<0.04A	4.2K	2.9	0.41	0.28	4.5B	12.3	J		2.	28
0.5 - 0.6	7A	<0.04A	7.014	0.0	0.00	4.0	0.70	0.4.4			_	00
0.6 - 0.7	7.3A	0.04A	7.8K	8.3	0.33	1.3	6.7B	24.4	J		5.	33
0.7 - 0.8	7.8A	0.07A	40.01/	40	0.40	0.0	7.00	20.0			0	75
0.8 - 0.9	8.2A	0.09A	10.2K	12	0.42	2.2	7.6B	32.6	J		6.	75
0.9 - 1	8.4A	0.11A	10.1K	12.7	0.42	2.7	5.2B	24.0			0	C.E.
1.1 - 1.2 1.3 - 1.4	8.6A 8.8A	0.013A 0.16A	10.11	12.7	0.42	2.1	3.ZB	31.2	J		0.	65
1.3 - 1.4 1.4 - 1.5	8.8A	0.16A 0.13A	9.9K	12.3	0.34	2.8	1.9B	27.2			10	.29
1.6 - 1.7	9A	0.13A 0.26A	9.91	12.3	0.34	2.0	1.90	21.2	J		10	.29
1.7 - 1.8	8.9A	0.20A 0.21A										
1.8 - 2	8.6A	0.21A										
1.0 - 2	0.07	0.177										
Depth	CaCO3	Organic	Avail.	Total	Total	Tota					Analysis	N .
m	%	C %	P mg/kg	P %	N %	K %	Densit Mg/m3		CS	FS %	Silt C	lay
""	/0	/0	ilig/kg	/0	/0	/0	WIG/III3			/0		
0 005		2 02D			0.40	000		0	33D	39	10	10
0 - 0.05 0.05 - 0.1		2.02D 1.27D			0.18 0.13			1	35D	39 41	13 14	10 9
0.05 - 0.1		0.67D			0.1			1	34D	40	12	12
0.1 - 0.2		0.46D			0.0			2	29D	40	11	18
0.25 - 0.3		0.46D			0.0			2	15D	32	11	39
0.3 - 0.4		0.38D			0.04	-		1	15D	38	14	31
0.4 - 0.5		0.19D			0.02			1	18D	38	12	28
0.5 - 0.6		0.14D			0.02			6	15D	35	13	29
0.6 - 0.7		0.23D			0.04			0	15D	27	10	48
0.7 - 0.8		0.24D			0.04			0	7D	10	8	74
0.8 - 0.9	0.09A	0.16D			0.03			-				
0.9 - 1	0.09A	0.13D			0.03	32B		4	10D	6	5	74
1.1 - 1.2	0.14A	0.1D										
1.3 - 1.4	0.11A	0.08D						2	16D	8	7	64
1.4 - 1.5	0.09A	0.07D						1	20D	9	7	62
1.6 - 1.7	5.22A	0.06D										
1.7 - 1.8	0.79A	0.04D										
1.8 - 2	0.06A	0.05D						9	33D	12	9	39
Depth	COLE			vimetric/Vo					K sa	ıt	K unsat	
m		Sat.	0.05 Bar	0.1 Bar	0.5 Bar g - m3/m	1 Bar	5 Bar	15 Bar	mm/	h	mm/h	
m				9/9	y - 1113/M	3			1/11/1/	"	11111/11	

0 - 0.05 0.05 - 0.1 0.1 - 0.2 0.2 - 0.25 0.25 - 0.3

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0.3 - 0.4 0.4 - 0.5 0.5 - 0.6 0.6 - 0.7 0.7 - 0.8 0.8 - 0.9 0.9 - 1 1.1 - 1.2 1.3 - 1.4 1.4 - 1.5 1.6 - 1.7 1.7 - 1.8 1.8 - 2

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Laboratory Analyses Completed for this profile

Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon 13C1 FE Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded CEC - meq per 100g of soil - Not recorded 15_NR_CA

15_NR_CEC

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 Exchangeable aluminium - meq per 100g of soil - Aluminium By difference of C and A or B 15G_C_AL1

Carbonates - rapid titration 19A1 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 (%) Clay (%) - Plummet balance P10_PB_C P10_PB_CS Coarse sand (%) - Plummet balance P10_PB_FS P10_PB_Z Fine sand (%) - Plummet balance Silt (%) - Plummet balance