

Project Name: KOO
Project Code: KOO **Site ID:** C16 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By: D.C. van Dijk	Locality: P23 centre:
Date Desc.: 20/07/54	Elevation: 125 metres
Map Ref.:	Rainfall: 380
Northing/Long.:	Runoff: Slow
Easting/Lat.:	Drainage: Imperfectly drained

Geology

ExposureType: No Data	Conf. Sub. is Parent. Mat.: No Data
Geol. Ref.: No Data	Substrate Material: No Data

Land Form

Rel/Slope Class: No Data	Pattern Type: Plain
Morph. Type: No Data	Relief: No Data
Elem. Type: Plain	Slope Category: No Data
Slope: 0 %	Aspect: No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Mottled Hypercalcic Red Chromosol	Principal Profile Form: N/A
ASC Confidence:	Great Soil Group: Red-brown earth
No analytical data and little or no knowledge of this soil.	

Site Disturbance: Extensive clearing, for example poisoning, ringbarking

Vegetation:

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

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.05 m	Reddish brown (5YR5/3-Moist); , 10YR72; Clay loam (Light); Massive grade of structure; Moderately moist; Firm consistence; 0-2%, Quartz, coarse fragments;
A12	0.05 - 0.16 m	Reddish brown (5YR4/3-Moist); ; Clay loam (Light); 5-10 mm, Platy; Moderately moist; Weak consistence; 2-10%, Quartz, coarse fragments; Sharp, Irregular change to -
B11	0.16 - 0.23 m	Light reddish brown (2.5YR7/4-Moist); ; Heavy clay (Light); Weak grade of structure, 50-100 mm, Prismatic; Moist; Firm consistence; 0-2%, Quartz, coarse fragments; Sharp, Tongued change to -
B12	0.23 - 0.36 m	Reddish brown (2.5YR4/4-Moist); ; Heavy clay (Light); Moderate grade of structure, 20-50 mm, Angular blocky; Moderate grade of structure, 5-10 mm, Angular blocky; Moderately moist; Weak consistence; 0-2%, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Concretions; Gradual change to -
B21	0.36 - 0.48 m	Yellowish red (5YR5/6-Moist); ; Medium clay (Heavy); Moderate grade of structure, 20-50 mm, Angular blocky; Moderate grade of structure, 20-50 mm, Angular blocky; Moderately moist; Weak consistence; Slightly plastic; Subplastic; 0-2%, Quartz, coarse fragments; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Soft segregations; Gradual change to -
B22	0.48 - 0.76 m	Red (2.5YR5/6-Moist); , 7.5YR66; Medium clay (Heavy); Moderate grade of structure, 20-50 mm, Angular blocky; Moderate grade of structure, 5-10 mm, Angular blocky; Moderately moist; Weak consistence; Slightly plastic; Subplastic; 0-2%, Quartz, coarse fragments; Many (20 - 50 %), Calcareous, , Soft segregations; Gradual change to -
B23	0.76 - 0.99 m	Reddish yellow (7.5YR6/6-Moist); , 5YR56; Medium clay (Heavy); Strong grade of structure, 20-50 mm, Angular blocky; Strong grade of structure, 2-5 mm, Angular blocky; Moderately moist; Weak consistence; Slightly plastic; Subplastic; 0-2%, Quartz, coarse fragments; Many (20 - 50 %), Calcareous, , Soft segregations;
D	1.37 - 1.6 m	Reddish yellow (5YR6/6-Moist); , 2.5YR56; Medium clay; Moderately moist; Weak consistence; Non-plastic; 0-2%, Quartz, coarse fragments; , Ferromanganiferous, , Concretions; Many (20 - 50 %), Calcareous, Coarse (6 - 20 mm), Soft segregations;
D12	0.9 - 2.16 m	Very pale brown (10YR7/4-Moist); , 2.5YR56; Medium clay; 10-20 mm, Angular blocky; Moderately moist; Weak consistence; Non-plastic; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Concretions;

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D13 2.67 - 2.84 m Pale yellow (5Y7/3-Moist); , 7.5YR6/6; , 2.5YR5/6; Medium clay; Moderately moist; Weak consistence; Non-plastic; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Concretions;

Morphological Notes

Observation Notes

48-216CM Fe-Mn STAINS ON AGGREGATES:76-137CM CARBONATES OCCUR IN VERTICAL PIPES:

Site Notes

COOPER

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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			%

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			%		

Depth	COLE	Gravimetric/Volumetric Water Contents							K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m					g/g -	m3/m3			mm/h	mm/h

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Laboratory Analyses Completed for this profile