Project Name: WAG
Project Code: WAG **Site ID:** C40 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By: E. Bettenay
Date Desc.: 12/12/56
Map Ref.:
Northing/Long.:
Easting/Lat.:
Locality: S.E. face of brick quarry Willie & Son Wagga Wagga:
Elevation: 189 metres
Rainfall: 540
Runoff: No Data
Drainage: No Data

Geology

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

Land Form

Rel/Slope Class: No Data
Morph. Type: No Data
Elem. Type: No Data
Slope: 0 %
Pattern Type: No Data
Relief: 6 metres
Slope Category: No Data
Aspect: No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Mottled Hypercalcic Red Kandosol
ASC Confidence:
No analytical data are available but confidence is fair.
Mapping Unit: N/A
Principal Profile Form: N/A
Great Soil Group: Red earth

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A	0 - 0.08 m	Brown (10YR4/3-Moist); , 7.5YR55; Silty clay loam; Weak grade of structure, 20-50 mm, Platy; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Weak consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; , fine (1-2mm) roots;
	0.08 - 0.15 m	Reddish yellow (5YR6/6-Moist); , 2.5YR34; Silty clay loam; Weak grade of structure, 20-50 mm, Angular blocky; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Very firm consistence; 10-20%, Gravel, coarse fragments;
B	0.15 - 0.2 m	Red (2.5YR4/6-Moist); , 5YR66; Silty light clay; Weak grade of structure, 20-50 mm, Angular blocky; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Very firm consistence; 0-2%, Gravel, coarse fragments; Very few (0 - 2 %), Ferruginous, , Nodules;
	0.2 - 0.28 m	Red (2.5YR4/6-Moist); , 5YR56; Medium clay; Weak grade of structure, Angular blocky; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Very firm consistence; 0-2%, Gravel, coarse fragments;
	0.28 - 0.36 m	Red (2.5YR4/6-Moist); ; Heavy clay; Weak grade of structure, 20-50 mm, Angular blocky; Weak grade of structure, 10-20 mm, Angular blocky; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Very firm consistence; 0-2%, fine gravelly, 2-6mm, Gravel, coarse fragments; Few (2 - 10 %), Argillaceous, Fine (0 - 2 mm), Nodules;
	0.51 - 0.61 m	Red (2.5YR4/6-Moist); ; Heavy clay; Massive grade of structure; 20-50 mm, Angular blocky; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Very firm consistence; 2-10%, fine gravelly, 2-6mm, Gravel, coarse fragments; , Argillaceous, Medium (2 -6 mm), Nodules;
BC	0.66 - 0.81 m	Reddish brown (5YR4/4-Moist); ; Medium heavy clay; Massive grade of structure; Dry; Very firm consistence; 0-2%, fine gravelly, 2-6mm, Gravel, coarse fragments; Common cutans, 10-50% of ped faces or walls coated; Very few (0 - 2 %), Argillaceous, Medium (2 -6 mm), Nodules; Few (2 - 10 %), Calcareous, , Soft segregations;
2B	0.91 - 1.02 m	Yellowish brown (10YR5/6-Moist); , 2.5YR46; Weak grade of structure, 20-50 mm, Angular blocky; Dry; Weak consistence; Few (2 - 10 %), Calcareous, , Soft segregations;
	1.68 - 1.83 m	Yellowish brown (10YR5/6-Moist); , 2.5YR46;
	2.13 - 2.29 m	Red (2.5YR4/6-Moist); , 10YR56; , 5Y54; Very firm consistence; , Calcareous, , Veins;

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3A	2.74 - 3.04 m	Greyish brown (10YR5/2-Moist); , 2.5YR46; Light clay; , Subangular blocky; Dry; Very firm consistence;
3B	3.05 - 3.35 m	Brown (10YR4/3-Moist); , 2.5YR46; Heavy clay; 50-100 mm, Angular blocky; ; FragmentDry; Very firm consistence; , Calcareous, , Veins;
3C	4.27 - 4.57 m	; Silty medium clay; Massive grade of structure; Dry; Very firm consistence; Few cutans, <10% of ped faces or walls coated;
4A1	6.1 - 6.4 m	Bluish grey (5B5/1-Moist); , 5Y68; , Angular blocky; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Very firm consistence;
4A2	6.4 - 6.55 m	; 2-10%, coarse fragments;
4B	6.55 - 6.71 m	Yellowish brown (10YR5/6-Moist); , 10YR64; , 2.5YR46; , Angular blocky; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, 2-10%, Gravel, coarse fragments; Common cutans, 10-50% of ped faces or walls coated;
	7.62 - 7.92 m	Yellowish brown (10YR5/6-Moist); ; 50-100 mm; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Weak consistence; 2-10%, Gravel, coarse fragments;
5A	0 - 0.3 m	Light yellowish brown (10YR6/4-Moist); ; Silty clay loam; 50-100 mm, Angular blocky; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Very firm consistence;
5B1	0.3 - 0.46 m	Grey (10YR5/1-Moist); , 2.5YR46; Heavy clay; Massive grade of structure; Moderately moist; Weak consistence;
5C	1.52 - 1.68 m	Grey (10YR6/1-Moist); , 10YR64; Light clay; Massive grade of structure; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Weak consistence;
	2.44 - 2.59 m	Red (2.5YR4/6-Moist); , 2.5YR50; Silty light clay; Massive grade of structure; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Weak consistence;

Morphological Notes

Observation Notes

SAMPLES 18-21 ARE COLLECTED FROM S.W. FACE OF QUARRY: 213-305CM AL GRAVEL IS ATTAPULGITE: 213-427CM WIDELY SPACE Ca COLUMNS:

Site Notes

WYNARD

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis				
								GV	CS	FS	Silt	Clay
m	%	%	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