

Project Name: WAG
Project Code: WAG **Site ID:** C52 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By:	Beattie, John	Locality:	Middle of southern boundary of portion 51:
Date Desc.:	23/01/57	Elevation:	213 metres
Map Ref.:	Sheet No. : 8327 1:100000	Rainfall:	454
Northing/Long.:	147	Runoff:	Moderately rapid
Easting/Lat.:	-35.25	Drainage:	Poorly 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:	No Data
Morph. Type:	No Data	Relief:	46 metres
Elem. Type:	No Data	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:	N/A	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	N/A
		Great Soil Group:	Red-brown earth

Site Disturbance:

Vegetation: Low Strata - , , . *Species includes - Danthonia species
 Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - None Recorded

Surface Coarse Fragments:

Profile Morphology

A	0 - 0.01 m	Strong brown (7.5YR5/6-Moist); , 7.5YR44; , 10YR53; Fine sandy clay loam; Moderate grade of structure, 2-5 mm, Platy; 0-2%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments;
AB	0.01 - 0.02 m	; 0-2%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments;
B1	0.02 - 0.1 m	Dark reddish brown (5YR3/4-Moist); , 5YR48; Medium clay (Light); Strong grade of structure, 10-20 mm, Angular blocky; 0-2%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments;
Bk	0.1 - 0.2 m	Yellowish red (5YR4/5-Moist); , 5YR34; Medium clay (Heavy); Strong grade of structure, 10-20 mm, Angular blocky; 0-2%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Common (10 - 20 %), Calcareous, , Soft segregations;
	0.2 - 0.36 m	Yellowish red (5YR3/6-Moist); , 5YR34; , 5YR46; Medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Strong grade of structure, 2-5 mm, Angular blocky; 0-2%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Common (10 - 20 %), Calcareous, , Soft segregations; Very few (0 - 2 %), Gypseous, , Crystals;
D	0.36 - 0.48 m	Yellowish brown (10YR5/4-Moist); , 5YR46; Medium clay; Strong grade of structure, 20-50 mm, Angular blocky; 0-2%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, , Soft segregations; Common (10 - 20 %), Gypseous, , Crystals;
	0.48 - 0.58 m	Yellowish brown (10YR5/4-Moist); , 2.5Y54; , 2.5YR36; Medium clay; Moderate grade of structure, 20-50 mm, Prismatic; Moderate grade of structure, 10-20 mm, Angular blocky; 0-2%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, , Soft segregations; Few (2 - 10 %), Gypseous, , Crystals;
	0.71 - 0.86 m	Pale brown (10YR6/3-Moist); , 5YR46; Medium clay (Heavy); Moderate grade of structure, 50-100 mm, Prismatic; Moderate grade of structure, 20-50 mm, Angular blocky; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, , Soft segregations; Common (10 - 20 %), Gypseous, , Crystals;
	0.96 - 1.09 m	Light brownish grey (2.5Y6/2-Moist); , 5YR46; , 5YR34; Medium clay (Heavy); Moderate grade of structure, 50-100 mm, Prismatic; Moderate grade of structure, 20-50 mm, Angular blocky; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, , Soft segregations;

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|---------------|---|
| 1.32 - 1.42 m | Olive (5Y5/3-Moist); , 5Y62; , 7.5YR44; Medium clay (Heavy); 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, , Soft segregations; Very few (0 - 2 %), Gypseous, , Crystals; |
| 1.75 - 1.86 m | Olive grey (5Y5/2-Moist); , 5Y53; , 5YR48; Heavy clay; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; |
| 2.05 - 2.16 m | Olive grey (5Y5/2-Moist); , 5Y62; , 10YR48; Medium clay; 0-2%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Few (2 - 10 %), Gypseous, , Crystals; |
| 3.15 - 2.35 m | Olive grey (5Y5/2-Moist); , 7.5YR56; Medium clay; 0-2%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Few (2 - 10 %), Gypseous, , Crystals; |
| 4.75 - 4.85 m | Olive grey (5Y5/2-Moist); , 2.5Y54; , 2.5Y64; Medium clay; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Very few (0 - 2 %), Gypseous, , Crystals; |

Morphological Notes

Observation Notes

WILLBRIGGIE CLAY LOAM; SEE ORIGINAL FOR MORE DETAIL; LAYER2 IS A MIXTURE OF LAYERS 1 AND 3:

Site Notes

WAGGA

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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		
m					g/g -	m3/m3		mm/h	mm/h

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Laboratory Analyses Completed for this profile