

**Project Name:** WAG  
**Project Code:** WAG      **Site ID:** C50      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (NSW)

#### Site Information

<b>Desc. By:</b>	Beattie, John	<b>Locality:</b>	Southern verge of surveyed road 500m east of road north from Dulah.
<b>Date Desc.:</b>	17/01/57	<b>Elevation:</b>	213 metres
<b>Map Ref.:</b>		<b>Rainfall:</b>	454
<b>Northing/Long.:</b>		<b>Runoff:</b>	Slow
<b>Easting/Lat.:</b>		<b>Drainage:</b>	Well drained

#### Geology

<b>Exposure Type:</b>	No Data	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	No Data

#### Land Form

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

#### Surface Soil Condition (dry):

#### Erosion:

#### Soil Classification

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

#### Site Disturbance:

**Vegetation:** Low Strata - , , . \*Species includes - Aristida species, Danthonia species  
 Tall Strata - Tree, 12.01-20m, Sparse. \*Species includes - None Recorded

#### Surface Coarse Fragments:

#### Profile Morphology

A11	0 - 0.05 m	Reddish brown (5YR4/3-Moist); ; Clay loam; Moderate grade of structure, 20-50 mm, Angular blocky; Dry; Firm consistence; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Gradual change to -
A12	0.05 - 0.15 m	Yellowish red (5YR4/8-Moist); ; Fine sandy clay loam; Massive grade of structure; Dry; Firm consistence; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Clear change to -
A21	0.15 - 0.25 m	Yellowish red (5YR4/6-Moist); , 5YR66; , 2.5YR36; Sandy clay loam (Heavy); Massive grade of structure; Dry; Very firm consistence; 10-20%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments; Gradual change to -
B11	0.25 - 0.33 m	Dark reddish brown (2.5YR3/4-Moist); , 5YR58; Medium clay; Weak grade of structure, 20-50 mm, Prismatic; Moderate grade of structure, 5-10 mm, Angular blocky; Moderately moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments;
B12	0.33 - 0.43 m	Dark reddish brown (2.5YR3/4-Moist); ; Medium clay; Weak grade of structure, 50-100 mm, Angular blocky; Weak grade of structure, 10-20 mm, Angular blocky; Dry; Very firm consistence; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Clear change to -
B21	0.43 - 0.5 m	Dark yellowish brown (10YR3/6-Moist); , 10YR34; , 2.5YR46; Light medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Strong grade of structure, 5-10 mm, Angular blocky; Dry; Firm consistence; 0-2%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Gradual change to -
B22	0.5 - 0.6 m	Dark yellowish brown (10YR3/6-Moist); , 2.5YR36; , 5YR58; Light clay; Moderate grade of structure, 10-20 mm, Angular blocky; Strong grade of structure, 5-10 mm, Angular blocky; Dry; Firm consistence; 0-2%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), Concretions; Very few (0 - 2 %), Calcareous, Medium (2 - 6 mm), Concretions;
B23	0.71 - 0.81 m	Dark red (2.5YR3/6-Moist); ; Light clay (Light); Moderate grade of structure, 10-20 mm, Angular blocky; Strong grade of structure, 5-10 mm, Angular blocky; Dry; Very firm consistence; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Concretions;

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|---------------|---|
| 1.02 - 1.12 m | Reddish yellow (7.5YR6/6-Moist); ; Light clay; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Concretions;   |
| 1.37 - 1.47 m | Dark red (2.5YR3/6-Moist); , 10YR58; , 5YR56; Light clay; Firm consistence; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Concretions; Gradual change to -  |
| 1.67 - 1.77 m | Dark red (2.5YR3/6-Moist); , 5YR58; , 7.5YR56; Sandy medium clay; Firm consistence; 0-2%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, Coarse (6 - 20 mm), Concretions; Clear change to - |
| 1.98 - 2.08 m | Yellowish red (5YR4/6-Moist); , 10R48; , 10YR64; Medium clay; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Concretions;  |
| 2.23 - 2.33 m | Yellowish red (5YR4/6-Moist); , 10YR53; Medium clay; Very firm consistence; Common (10 - 20 %), Calcareous, Very coarse (20 - 60 mm), Tubules; Gradual change to -  |
| 3 - 3.1 m     | Brown (10YR5/3-Moist); , 10YR54; Light clay (Heavy); Very firm consistence; 0-2%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Common (10 - 20 %), Calcareous, , Concretions; Gradual change to -                         |
| 3.35 - 3.42 m | Yellowish brown (10YR5/4-Moist); , 5Y53; , 5Y52; Medium heavy clay; Firm consistence; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, , Concretions;                                      |
| 3.77 - 3.85 m | Light yellowish brown (10YR6/4-Moist); , 10YR54; , 5Y62; Medium heavy clay; Firm consistence; Few (2 - 10 %), Calcareous, , Concretions;  |
| 4.17 - 4.27 m | Strong brown (7.5YR5/7-Moist); , 5Y72; , 10YR66; Coarse sandy medium clay; Weak consistence;  |

**Morphological Notes**

**Observation Notes**

DULAH CLAY LOAM: SEE ORIGINAL FOR MORE DETAIL

**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 Cmol (+)/kg	Acidity		%

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