

**Project Name:** Regional  
**Project Code:** REG **Site ID:** T158 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

**Site Information**

<b>Desc. By:</b>	G. Smith	<b>Locality:</b>	3.4KM south of Salt Arm Creek and north of Inkerman turn on Rutlands Plains Road:
<b>Date Desc.:</b>	02/10/70	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	Sheet No. : 7265 1:100000	<b>Rainfall:</b>	0
<b>Northing/Long.:</b>	141.520833333333	<b>Runoff:</b>	Very slow
<b>Easting/Lat.:</b>	-16.2569444444445	<b>Drainage:</b>	Imperfectly drained

**Geology**

<b>Exposure Type:</b>	Undisturbed soil core	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	Czy	<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>	0 metres
<b>Elem. Type:</b>	Plain	<b>Slope Category:</b>	No Data
<b>Slope:</b>	0 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):** Hardsetting

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Class Undetermined Chromosolic Redoxic Hydrosol	<b>Principal Profile Form:</b>	Gn2.94
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Yellow earth
No analytical data are available but confidence is fair.		

**Site Disturbance:**

**Vegetation:**

Tall Strata - Tree, 3.01-6m, Very sparse. \*Species includes - None Recorded

**Surface Coarse Fragments:** No surface coarse fragments

**Profile Morphology**

A1	0 - 0.05 m	Greyish brown (10YR5/2-Moist); Light grey (10YR7/2-Dry); , 10YR58, 10-20% , 0-5mm; , 10-20% , 0-5mm; Fine sandy loam; Massive grade of structure; Clear change to -
A2	0.05 - 0.1 m	Greyish brown (10YR5/2-Moist); Light grey (10YR7/2-Dry); , 10YR58, 10-20% , 5-15mm; , 10-20% , 5-15mm; Fine sandy clay loam; Massive grade of structure; Earthy fabric; Clear change to -
B1	0.1 - 0.2 m	Pale brown (10YR6/3-Moist); , 7.5YR56, 20-50% , 5-15mm, Distinct; , 20-50% , 5-15mm, Distinct; Silty medium clay (Light); Massive grade of structure; Earthy fabric; Gradual change to -
B1	0.2 - 0.3 m	Pale brown (10YR6/3-Moist); , 7.5YR56, 20-50% , 5-15mm, Distinct; , 20-50% , 5-15mm, Distinct; Light clay; Moderate grade of structure, 20-50 mm, Angular blocky; Many (>5 per 100mm <sup>2</sup> ) Fine (1-2mm) macropores, Common (10 - 20 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Gradual change to -
B21	0.3 - 0.4 m	Pale red (2.5YR6/2-Moist); , 7.5YR56, 20-50% , 5-15mm, Distinct; , 20-50% , 5-15mm, Distinct; Light medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Many (>5 per 100mm <sup>2</sup> ) Fine (1-2mm) macropores, Common (10 - 20 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Gradual change to -
B21	0.4 - 0.5 m	Pale red (2.5YR6/2-Moist); , 7.5YR56, 20-50% , 5-15mm, Distinct; , 20-50% , 5-15mm, Distinct; Light medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Many (>5 per 100mm <sup>2</sup> ) Fine (1-2mm) macropores, Common (10 - 20 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Gradual change to -
B21	0.5 - 0.6 m	Pale red (2.5YR6/2-Moist); , 10YR58, 20-50% , 5-15mm; , 10R48, 20-50% , 5-15mm; Light medium clay; Massive grade of structure; Earthy fabric; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Gradual change to -
B22	0.6 - 0.7 m	Light brownish grey (10YR6/2-Moist); , 10YR58, 20-50% , 5-15mm; , 10R48, 20-50% , 5-15mm; Light medium clay; Massive grade of structure; Earthy fabric; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Gradual change to -
B22	0.7 - 0.8 m	Light brownish grey (10YR6/2-Moist); , 10YR58, 10-20% , 5-15mm; , 10-20% , 5-15mm; Light medium clay; Massive grade of structure; Clear change to -

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C	0.8 - 0.9 m	Grey (10YR5/1-Moist); , 10YR55, 20-50% , 5-15mm; , 20-50% , 5-15mm; Heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Gradual change to -
	0.9 - 1 m	Grey (10YR5/1-Moist); , 10YR55, 20-50% , 5-15mm; , 20-50% , 5-15mm; Heavy clay; 20-50 mm, Angular blocky;

**Morphological Notes**

**Observation Notes**

0-5CM MOTTLE ALONG ROOT CHANNELS:20-50CM COMMON MN. STAINING:80-100CM PARALLELIPED @ BLEACHED SURFACE(WEAKLEY STRIATED)

**Site Notes**

GALBRIATH

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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		%
0 - 0.05	6.4A	0.026A					
0.05 - 0.1	6A	0.02A					
0.1 - 0.2	6A	0.02A					
0.2 - 0.3	5.6A	0.095A					
0.3 - 0.4	5.9A	0.023A					
0.4 - 0.5	5.7A	0.059A					
0.5 - 0.6	6.1A	0.026A					
0.6 - 0.7	6.4A	0.02A					
0.7 - 0.8	6.4A	0.02A					
0.8 - 0.9	6.5A	0.026A					
0.9 - 1	6A	0.059A					

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**Laboratory Analyses Completed for this profile**

3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension