

**Project Name:** Regional  
**Project Code:** REG **Site ID:** T187 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

**Site Information**

<b>Desc. By:</b>	G.G. Murtha	<b>Locality:</b>	On track into Gumlow holding .8KM west of Bohle River from rubbish tip:
<b>Date Desc.:</b>	23/11/70	<b>Elevation:</b>	31 metres
<b>Map Ref.:</b>	Sheet No. : 8259 1:100000	<b>Rainfall:</b>	1020
<b>Northing/Long.:</b>	146.702222222222	<b>Runoff:</b>	Slow
<b>Easting/Lat.:</b>	-19.3402777777778	<b>Drainage:</b>	Poorly drained

**Geology**

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

**Land Form**

<b>Rel/Slope Class:</b>	Level plain <9m <1%	<b>Pattern Type:</b>	Alluvial plain
<b>Morph. Type:</b>	Flat	<b>Relief:</b>	0 metres
<b>Elem. Type:</b>	Plain	<b>Slope Category:</b>	Level
<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
Vertic Subnatic Grey Sodosol	<b>Principal Profile Form:</b>	Dy2.33
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Solodic soil

All necessary analytical data are available.

**Site Disturbance:** No effective disturbance other than grazing by hoofed animals

**Vegetation:** Low Strata - Tussock grass, 0.51-1m, Mid-dense. \*Species includes - None recorded  
Mid Strata - Tree, 1.01-3m, Very sparse. \*Species includes - Grevillea striata  
Tall Strata - Tree, 6.01-12m, Very sparse. \*Species includes - Eucalyptus grandifolia, Eucalyptus alba,  
Eucalyptus drepanophylla

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

**Profile Morphology**

A1/A2	0 - 0.1 m	Dark grey (10YR4/1-Moist); , 10YR33; , 10YR71; Clay loam; Weak grade of structure, 5-10 mm, Angular blocky; Moderately moist; Firm consistence; 2-10%, Quartz, coarse fragments; Common, medium (2-5mm) roots;
A2	0.1 - 0.14 m	Dark grey (10YR4/1-Moist); , 10YR33; , 10YR71; Clay loam; Weak grade of structure, 5-10 mm, Angular blocky; Moderately moist; Firm consistence; 2-10%, Quartz, coarse fragments; Abrupt change to -
B2	0.14 - 0.2 m	Dark grey (10YR4/1-Moist); ; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Dry; Very strong consistence; 2-10%, Quartz, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules;
B2	0.2 - 0.3 m	Dark grey (10YR4/1-Moist); ; Heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Dry; Very strong consistence; 2-10%, Quartz, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Calcareous, Coarse (6 - 20 mm), Concretions;
B2	0.3 - 0.45 m	Very dark greyish brown (10YR3/2-Moist); ; Heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Dry; Very strong consistence; 2-10%, Quartz, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Calcareous, Coarse (6 - 20 mm), Concretions;
B2	0.45 - 0.6 m	Dark grey (10YR4/1-Moist); ; Heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Dry; Very strong consistence; 2-10%, Quartz, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Concretions;
B2	0.6 - 0.9 m	Dark grey (10YR4/1-Moist); ; Heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Dry; Very strong consistence; 2-10%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Calcareous, Medium (2 - 6 mm), Concretions; Diffuse change to -

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B2	0.9 - 1.2 m	Dark greyish brown (10YR4/2-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Dry; Very strong consistence; 2-10%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Concretions; Diffuse change to -
BC	1.2 - 1.5 m	Pale brown (10YR6/3-Moist); ; Medium clay; Strong grade of structure, 2-5 mm, Angular blocky; Moderately moist; Firm consistence; 0-2%, medium gravelly, 6-20mm, Quartz, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules;
	1.5 - 1.8 m	Greyish brown (2.5Y5/2-Moist); ; Medium clay; Strong grade of structure, 2-5 mm, Angular blocky; Firm consistence; 2-10%, Quartz, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Concretions;
	1.8 - 2.1 m	Greyish brown (2.5Y5/2-Moist); ; Medium clay; Strong grade of structure, 2-5 mm, Angular blocky; Very firm consistence; 0-2%, Quartz, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Gypseous, Medium (2 -6 mm), Concretions;
	2.1 - 2.5 m	Greyish brown (10YR5/2-Moist); ; 7.5YR54, 10-20% , 0-5mm, Faint; , 10-20% , 0-5mm, Faint; Medium clay; Strong grade of structure, 5-10 mm, Angular blocky; Very firm consistence; 0-2%, Quartz, coarse fragments;
C	2.5 - 3 m	Greyish brown (10YR5/2-Moist); , 10YR58, 20-50% , 5-15mm, Distinct; , 20-50% , 5-15mm, Distinct; Sandy medium clay (Light); Weak grade of structure, 5-10 mm, Angular blocky; Moderately moist; Very firm consistence; 0-2%, Quartz, coarse fragments; Very few (0 - 2 %), Gypseous, Medium (2 -6 mm), Concretions;

#### **Morphological Notes**

#### **Observation Notes**

45-60CM SOME COARSE SLICKENSIDES:120-150CM SOME DIFFUSE MN:150-210CM MUCH DIFFUSE MN:

#### **Site Notes**

BOHLE RIVER

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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 - 0.1	6A	0.032A							
0.1 - 0.14	6.3A	0.041A							
0.14 - 0.2	6.7A	0.053A	15.3B	8.2	0.15	1.6	21.9C		7.31
0.2 - 0.3	7.5A	0.125A							
0.3 - 0.45	8.7A	0.214A							
0.45 - 0.6	9.2A	0.309A							
0.6 - 0.9	9A	0.541A							
0.9 - 1.2	8.8A	1.07A							
1.2 - 1.5	8.3A	0.86A							
1.5 - 1.8	8.2A	0.702A							
1.8 - 2.1	8.2A	0.75A							
2.1 - 2.5	8.1A	0.672A							
2.5 - 3	8.7A	0.8A							

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**Laboratory Analyses Completed for this profile**

13C1_AL	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
15A2_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_K	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_MG	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_NA	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15D1_CEC	CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
2A1	Air-dry moisture content
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9B_9C	Available P (mg/kg) - Bicarbonate P - 0.5M NaHCO3 extractable
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)