

Project Name: Regional
Project Code: REG **Site ID:** T189 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.G. Murtha	Locality:	On track into Gumlow holding 1.1KM west of Bohle River rubbish tip:
Date Desc.:	24/11/70	Elevation:	31 metres
Map Ref.:	Sheet No. : 8259 1:100000	Rainfall:	1020
Northing/Long.:	146.7	Runoff:	Slow
Easting/Lat.:	-19.3397222222222	Drainage:	Poorly drained

Geology

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

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Alluvial plain
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	Plain	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Calcic Hypernatric Grey Sodosol	Principal Profile Form:	Dy3.43
ASC Confidence:	Great Soil Group:	Solodic soil

Analytical data are incomplete but reasonable confidence.

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

Vegetation: Low Strata - Forb, 0.51-1m, Sparse. *Species includes - Stylosanthes humilis, Aristida species
 Mid Strata - Tree, 1.01-3m, Very sparse. *Species includes - Eremophila mitchellii
 Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - Eucalyptus drepanophylla, Eucalyptus grandifolia

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1/A2	0 - 0.1 m	Light brownish grey (10YR6/2-Moist); White (10YR8/2-Dry); , 10YR54; Fine sandy loam; Massive grade of structure; Moist; Weak consistence; 0-2%, Quartz, coarse fragments; Abrupt change to -
B2	0.1 - 0.2 m	Dark greyish brown (10YR4/2-Moist); , 10YR54, 10-20% , 0-5mm, Faint; , 10-20% , 0-5mm, Faint; Heavy clay; Strong grade of structure, 5-10 mm, Angular blocky; Dry; Very strong consistence; 0-2%, Quartz, coarse fragments;
B2	0.2 - 0.3 m	Dark greyish brown (10YR4/2-Moist); , 10YR54, 10-20% , 0-5mm, Faint; , 10-20% , 0-5mm, Faint; Heavy clay; Moderate grade of structure, 5-10 mm, Angular blocky; Dry; Very strong consistence; 0-2%, Quartz, coarse fragments; Diffuse change to -
B2	0.3 - 0.6 m	Brown (10YR5/3-Moist); ; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Dry; Very strong consistence; 0-2%, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Nodules; Few (2 - 10 %), Calcareous, Very coarse (20 - 60 mm), Concretions;
B2	0.6 - 0.9 m	Greyish brown (2.5Y5/2-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Strong consistence; 0-2%, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Nodules; Few (2 - 10 %), Calcareous, Very coarse (20 - 60 mm), Concretions;
B2	0.9 - 1.2 m	Greyish brown (2.5Y5/2-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Strong consistence; 0-2%, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Nodules; Few (2 - 10 %), Calcareous, Very coarse (20 - 60 mm), Concretions;
	1.2 - 1.5 m	Light brownish grey (2.5Y6/2-Moist); ; Sandy medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Strong consistence; 0-2%, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Nodules; Few (2 - 10 %), Calcareous, Very coarse (20 - 60 mm), Concretions; Diffuse, Irregular change to -

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	1.5 - 1.8 m	Light brownish grey (2.5Y6/2-Moist); , 2.5Y52; Sandy medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moderate grade of structure, 5-10 mm, Angular blocky; Strong consistence; 0-2%, Quartz, coarse fragments; Few (2 - 10 %), Manganiferous, , Soft segregations; Few (2 - 10 %), Calcareous, Very coarse (20 - 60 mm), Concretions;
D	1.8 - 2.1 m	Greyish brown (2.5Y5/2-Moist); ; Heavy clay; Strong grade of structure, 5-10 mm, Angular blocky; Moderately moist; Very firm consistence; 0-2%, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Nodules; Few (2 - 10 %), Calcareous, Very coarse (20 - 60 mm), Concretions;
D	2.1 - 2.5 m	Greyish brown (2.5Y5/2-Moist); ; Heavy clay; Strong grade of structure, 5-10 mm, Angular blocky; Moderately moist; Very firm consistence; 0-2%, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Nodules; Few (2 - 10 %), Calcareous, Very coarse (20 - 60 mm), Concretions;

Morphological Notes

Observation Notes

VERY THIN DARKER A1:10-20CM SOME A2 MATERIAL ON PED FACES:150-180CM gB MOTTLE IS HC:

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	6.2A	0.11A							
0.1 - 0.2	6.9A	0.425A	4.3B	7.6	0.14	6.3		14.9C	42.28
0.2 - 0.3	8.3A	0.779A							
0.3 - 0.6	9.3A	0.949A							
0.6 - 0.9	9.3A	1.01A	4.8B	8.2	0.17	11.2		17.5C	64.00
0.9 - 1.2	9.4A	0.88A							
1.2 - 1.5	9.2A	0.863A							
1.5 - 1.8	9.1A	0.839A							
1.8 - 2.1	9.4A	1.2A	6.6B	9.2	0.08	18.6		24C	77.50
2.1 - 2.5	9.4A	1.21A							

[illegible][illegible]

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Laboratory Analyses Completed for this profile

13C1_AL	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
15A2_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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 NaHCO ₃ extractable
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H ₂ SO ₄ (BSES)