Project Name: **Regional**
Project Code: **REG** **Site ID:** **T188** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (QLD)**

Site Information

Desc. By: G.G. Murtha
Locality: On track into Gumlow holding .8KM 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.: 146.702222222222
Runoff: Slow
Easting/Lat.: -19.3402777777778
Drainage: Poorly drained

Geology

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

Land Form

Rel/Slope Class: Level plain <9m <1%
Pattern Type: Alluvial plain
Morph. Type: Flat
Relief: 0 metres
Elem. Type: Plain
Slope Category: Level
Slope: 0 %
Aspect: No Data

Surface Soil Condition (dry): Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:
Haplic Self-Mulching Aquic Vertosol
Mapping Unit: N/A
Principal Profile Form: Ug5.2
Great Soil Group: Grey clay
ASC Confidence:
No analytical data are available but confidence is fair.

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:

Profile Morphology

A1	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); ; Heavy clay; Moderate grade of structure, 5-10 mm, Angular blocky; Moist; Weak consistence; Moderately plastic; Normal plasticity; 10-20%, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Nodules; Few (2 - 10 %), Calcareous, Very coarse (20 - 60 mm), Concretions;
B	0.1 - 0.2 m	Grey (10YR5/1-Moist); ; Heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Strong grade of structure, 5-10 mm, Angular blocky; Dry; Very strong consistence; 10-20%, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Nodules; Many (20 - 50 %), Calcareous, Very coarse (20 - 60 mm), Concretions;
B	0.2 - 0.3 m	Grey (10YR5/1-Moist); ; Heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Dry; Very strong consistence; 10-20%, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Nodules; Many (20 - 50 %), Calcareous, Very coarse (20 - 60 mm), Concretions;
	0.3 - 0.6 m	Grey (10YR5/1-Moist); ; Heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Very strong consistence; 10-20%, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Nodules; Many (20 - 50 %), Calcareous, Very coarse (20 - 60 mm), Concretions;
	0.6 - 0.9 m	Grey (10YR5/1-Moist); ; Heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Very strong consistence; 10-20%, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Nodules; Many (20 - 50 %), Calcareous, Very coarse (20 - 60 mm), Concretions;
	0.9 - 1.2 m	Grey (10YR5/1-Moist); ; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Very strong consistence; 2-10%, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Calcareous, Coarse (6 - 20 mm), Concretions; Few (2 - 10 %), Gypseous, , Crystals;
	1.2 - 1.5 m	Greyish brown (2.5Y5/2-Moist); ; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Very strong consistence; 2-10%, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Calcareous, Coarse (6 - 20 mm), Concretions; Few (2 - 10 %), Gypseous, , Crystals;

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	1.5 - 1.8 m	Greyish brown (2.5Y5/2-Moist); ; Heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Strong grade of structure, 5-10 mm, Angular blocky; Very strong consistence; 2-10%, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Calcareous, Very coarse (20 - 60 mm), Concretions;
	1.8 - 2.1 m	Greyish brown (2.5Y5/2-Moist); ; Heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Strong grade of structure, 5-10 mm, Angular blocky; Very strong consistence; 2-10%, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Calcareous, Very coarse (20 - 60 mm), Concretions;
	2.1 - 2.5 m	Greyish brown (10YR5/2-Moist); , 7.5YR54, 2-10% , 0-5mm, Faint; , 2-10% , 0-5mm, Faint; Heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Strong consistence; 0-2%, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, Very coarse (20 - 60 mm), Concretions;
BC	2.5 - 3 m	Greyish brown (10YR5/2-Moist); , 7.5YR56, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Sandy medium clay (Light); Moderate grade of structure, 10-20 mm, Angular blocky; Dry; Very firm consistence; 2-10%, Quartz, coarse fragments;

Morphological Notes

Observation Notes

150-210CM MUCH DIFFUSE MN ALSO:(3KN) CARBONATE NODULES ON SURFACE OF PUFF:

Site Notes

BOHLE RIVER

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.1	8.4A	0.151A								
0.1 - 0.2	8.7A	0.136A								
0.2 - 0.3	8.9A	0.151A								
0.3 - 0.6	9.1A	0.229A								
0.6 - 0.9	9A	0.669A								
0.9 - 1.2	7.9A	3.9A								
1.2 - 1.5	8A	2.65A								
1.5 - 1.8	8.6A	1.11A								
1.8 - 2.1	8.2A	0.949A								
2.1 - 2.5	8.4A	0.928A								
2.5 - 3	8.4A	0.788A								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1		0.86D	2A 4B		0.09A							
0.1 - 0.2												
0.2 - 0.3												
0.3 - 0.6												
0.6 - 0.9												
0.9 - 1.2												
1.2 - 1.5												
1.5 - 1.8												
1.8 - 2.1												
2.1 - 2.5												
2.5 - 3												

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	
m		g/g - m3/m3						mm/h	mm/h
0 - 0.1									
0.1 - 0.2									
0.2 - 0.3									
0.3 - 0.6									
0.6 - 0.9									
0.9 - 1.2									
1.2 - 1.5									
1.5 - 1.8									
1.8 - 2.1									
2.1 - 2.5									
2.5 - 3									

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Laboratory Analyses Completed for this profile

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_2SO_4 (BSES)