

Project Name: Regional
Project Code: REG **Site ID:** T182 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.G. Murtha	Locality:	2.4KM north of Bluewater:
Date Desc.:	19/11/70	Elevation:	15 metres
Map Ref.:	Sheet No. : 8259 1:100000	Rainfall:	1140
Northing/Long.:	146.535555555556	Runoff:	Moderately rapid
Easting/Lat.:	-19.161944444444	Drainage:	Moderately well drained

Geology

ExposureType:	Undisturbed soil core	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Qa	Substrate Material:	Undisturbed soil core, 1.2 m deep, Unconsolidated material

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Stagnant alluvial plain
Morph. Type:	No Data	Relief:	1 metres
Elem. Type:	Prior stream	Slope Category:	No Data
Slope:	0 %	Aspect:	0 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Mottled Class Undetermined Yellow Kandosol		Principal Profile Form:	Gn2.74
ASC Confidence:		Great Soil Group:	Yellow earth

Analytical data are incomplete but reasonable confidence.

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 - Acacia species, Melaleuca viridiflora
 Tall Strata - Tree, 3.01-6m, Very sparse. *Species includes - Eucalyptus alba, Eucalyptus polycarpa, Trigonella

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.04 m	Very dark greyish brown (10YR3/2-Moist); ; Loamy sand; Massive grade of structure; Moist; Very weak consistence; 20-50%, Charcoal, coarse fragments; Clear change to -
A2	0.04 - 0.1 m	Brown (10YR5/3-Moist); ; Sandy loam; Massive grade of structure; Moist; Weak consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments; Many, fine (1-2mm) roots;
A2	0.1 - 0.2 m	Brown (10YR5/3-Moist); ; Sandy loam; Massive grade of structure; Moist; Weak consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments; Gradual change to -
B1	0.2 - 0.3 m	Yellowish brown (10YR5/5-Moist); ; Sandy loam (Heavy); Massive grade of structure; Many (>5 per 100mm2) Fine (1-2mm) macropores, Moist; Weak consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules;
B1	0.3 - 0.45 m	Yellowish brown (10YR5/5-Moist); ; Sandy clay loam (Light); Massive grade of structure; Earthy fabric; Moist; Weak consistence; 10-20%, fine gravelly, 2-6mm, Quartz, coarse fragments; Few (2 - 10 %), Unidentified, Very coarse (20 - 60 mm), Concretions;
B2	0.45 - 0.6 m	Yellowish brown (10YR5/4-Moist); , 10YR58, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Sandy clay loam; Massive grade of structure; Earthy fabric; Moderately moist; Firm consistence; 0-2%, coarse gravelly, 20-60mm, rounded, Arkose, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Coarse (6 - 20 mm), Concretions;
B2	0.6 - 0.9 m	Light yellowish brown (10YR6/4-Moist); , 10YR58, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Sandy clay loam; Massive grade of structure; Earthy fabric; Common (1-5 per 0.01m2) Coarse (>5mm) macropores, Dry; Firm consistence; 20-50%, fine gravelly, 2-6mm, Quartz, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Coarse (6 - 20 mm), Concretions;
BC	0.9 - 1.2 m	Light yellowish brown (10YR6/4-Moist); , 10YR58, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Clayey sand; Massive grade of structure; Common (1-5 per 0.01m2) Coarse (>5mm) macropores, Dry; Weak consistence; 20-50%, fine gravelly, 2-6mm, Quartz, coarse fragments; Few (2 - 10 %), Ferruginous, Very coarse (20 - 60 mm), Concretions;

Morphological Notes

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BEYOND 120CM IS WHITE COARSE SAND WITH SOME FE STAINED BANDING (TOP 30CM) OCCASIONAL ROUNDED GR
<60MM:

Site Notes

BLUEWATER

Observation Notes

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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 - 0.04	6.1A	0.017A							
0.04 - 0.1	5.7A	0.014A							
0.1 - 0.2	5.6A	0.011A							
0.2 - 0.3	5.7A	0.014A							
0.3 - 0.45	5.7A	0.041A							
0.45 - 0.6	5.8A	0.017A	0.2B	1.4	0.22	0.18		2.6C	6.92
0.6 - 0.9	6A	0.014A							
0.9 - 1.2	6.1A	0.014A							

[illegible][illegible]

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Laboratory Analyses Completed for this profile

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)