

Project Name: Regional
Project Code: REG **Site ID:** T165 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	R.F. Isbell	Locality:	.5KM along Boomerang Road from turnoff on Hann Highway:turnoff is 6.5KMeast of Mt. Surprise Road:
Date Desc.:	13/10/70	Elevation:	No Data
Map Ref.:	Sheet No. : 7861 1:100000	Rainfall:	0
Northing/Long.:	144.808333333333	Runoff:	Very slow
Easting/Lat.:	-18.1958333333333	Drainage:	Moderately well drained

Geology

ExposureType:	Undisturbed soil core	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Czm	Substrate Material:	Undisturbed soil core, 5 m deep,Basalt

Land Form

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

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Haplic Eutrophic Red Ferrosol	Principal Profile Form:	Gn3.12
ASC Confidence:	Great Soil Group:	Euchrozem

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, 3.01-6m, Very sparse. *Species includes - Grevillea pteridifolia
 Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus dichromophloia, Eucalyptus crebra,
 Eucalyptus papuana

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.1 m	Dark reddish brown (5YR3/2-Moist); Dark reddish brown (5YR3/2-Dry); ; Clay loam; Weak grade of structure, 5-10 mm, Angular blocky; Dry; Strong consistence; Common, fine (1-2mm) roots; Gradual change to -
A12	0.1 - 0.2 m	Dark reddish brown (2.5YR3/3-Moist); Dark reddish brown (2.5YR3/4-Dry); ; Clay loam (Heavy); Weak grade of structure, 5-10 mm, Angular blocky; Dry; Strong consistence; Few (2 - 10 %), Argillaceous, Fine (0 - 2 mm), Nodules; Few, fine (1-2mm) roots; Gradual change to -
B1	0.2 - 0.3 m	Dark reddish brown (2.5YR3/4-Moist); Dark red (2.5YR3/5-Dry); ; Light clay; Weak grade of structure, 5-10 mm, Angular blocky; Dry; Strong consistence; Few (2 - 10 %), Ferruginous, Fine (0 - 2 mm), Nodules;
B1	0.3 - 0.6 m	Dark reddish brown (2.5YR3/4-Moist); Dark red (2.5YR3/5-Dry); ; Light clay; Weak grade of structure, 5-10 mm, Angular blocky; Dry; Strong consistence; Few (2 - 10 %), Ferruginous, Fine (0 - 2 mm), Nodules; Gradual change to -
B1	0.6 - 0.9 m	Dark red (2.5YR3/6-Moist); ; Light clay; Weak grade of structure, 5-10 mm, Angular blocky; Dry; Strong consistence; Few (2 - 10 %), Ferruginous, Fine (0 - 2 mm), Nodules; Gradual change to -
B21	0.9 - 1.2 m	Dark red (2.5YR3/6-Moist); ; Light medium clay; Weak grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; Few (2 - 10 %), Ferruginous, Fine (0 - 2 mm), Nodules; Gradual change to -
B21	1.2 - 1.5 m	Dark red (2.5YR3/6-Moist); ; Light medium clay; Moderate grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; Few (2 - 10 %), Ferruginous, Fine (0 - 2 mm), Nodules; Gradual change to -
B22	1.5 - 1.8 m	Dark red (2.5YR3/6-Moist); ; Medium clay; Moderate grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; Few (2 - 10 %), Ferruginous, Fine (0 - 2 mm), Nodules; Gradual change to -

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B22	1.8 - 2.1 m	Dark red (2.5YR3/6-Moist); ; Medium clay; Moderate grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; Few (2 - 10 %), Ferruginous, Fine (0 - 2 mm), Nodules; Gradual change to -
	2.1 - 2.6 m	Dark red (2.5YR3/6-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Very firm consistence; Common (10 - 20 %), Argillaceous, , Tubules; Gradual change to -
	2.6 - 3.1 m	Dark red (2.5YR3/6-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Very firm consistence; Common (10 - 20 %), Argillaceous, , Tubules; Gradual change to -
	3.1 - 3.6 m	Yellowish red (5YR3/6-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Very firm consistence; Common (10 - 20 %), Argillaceous, ,
	3.6 - 4.1 m	Yellowish red (5YR3/6-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Very firm consistence; Common (10 - 20 %), Argillaceous, ,
	4.1 - 4.6 m	Yellowish red (5YR3/6-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Very firm consistence; Common (10 - 20 %), Argillaceous, ,
	4.6 - 4.8 m	Yellowish red (5YR3/6-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Very firm consistence; Common (10 - 20 %), Argillaceous, ,
	4.8 - 5 m	;
	5 - 5.2 m	;

Morphological Notes

Soft weathered basalt with small veins of red clay:

Observation Notes

480-500CM SOFT WEATHERED BASALT WITH AREAS OF RED MC:<10% BASALT FLOATERS IN PROFILE:120-121CM STAINING ON PED FACES:

Site Notes

BOOMERANG

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[illegible]

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1.5 - 1.8
1.8 - 2.1
2.1 - 2.6
2.6 - 3.1
3.1 - 3.6
3.6 - 4.1
4.1 - 4.6
4.6 - 4.8
4.8 - 5
5 - 5.2

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Laboratory Analyses Completed for this profile

10A1	Total sulfur - X-ray fluorescence
12_HF_CU	Total element - Cu(mg/kg) - HF/HClO ₄ Digest
12_HF_FE	Total element - Fe(%) - HF/HClO ₄ Digest
12_HF_MN	Total element - Mn(mg/kg) - HF/HClO ₄ Digest
12_HF_ZN	Total element - Zn(mg/kg) - HF/HClO ₄ Digest
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
17A1	Total potassium - X-ray fluorescence
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
9A1	Total phosphorus - X-ray fluorescence
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H ₂ SO ₄ (BSES)