

Project Name: Regional
Project Code: REG **Site ID:** T164 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	R.F. Isbell	Locality:	Hann highway 3.7KM north of Wyandotte Creek:8.5KM north of Reedy Brookturnoff:
Date Desc.:	13/10/70	Elevation:	No Data
Map Ref.:	Sheet No. : 7861 1:100000	Rainfall:	0
Northing/Long.:	144.736111111111	Runoff:	Moderately rapid
Easting/Lat.:	-18.454166666667	Drainage:	Moderately well drained

Geology

ExposureType:	Undisturbed soil core	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Czm	Substrate Material:	Undisturbed soil core, 2 m deep,Basalt

Land Form

Rel/Slope Class:	Gently undulating rises 9-30m 1-3%	Pattern Type:	Rises
Morph. Type:	No Data	Relief:	12 metres
Elem. Type:	Hillslope	Slope Category:	Gently inclined
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:

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 crebra, Eucalyptus dichromophloia,
 Eucalyptus papuana

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Dark reddish brown (5YR3/3-Moist); Dark reddish brown (5YR3/3-Dry); ; Clay loam (Heavy); Moderate grade of structure, 5-10 mm, Angular blocky; Dry; Strong consistence; Few (2 - 10 %), Argillaceous, Medium (2 -6 mm), Nodules; Common, fine (1-2mm) roots; Gradual change to -
A3	0.1 - 0.2 m	Dark reddish brown (2.5YR3/3-Moist); Dark reddish brown (2.5YR3/4-Dry); ; Light clay; Moderate grade of structure, 5-10 mm, Angular blocky; Dry; Strong consistence; 2-10%, Basalt, coarse fragments; Few (2 - 10 %), Argillaceous, Medium (2 -6 mm), Nodules; Common, 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 medium clay; Moderate grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; 2-10%, rounded, Basalt, coarse fragments; Few, fine (1-2mm) roots; Gradual change to -
B1	0.3 - 0.6 m	Dark red (2.5YR3/5-Moist); Dark red (2.5YR3/6-Dry); ; Medium clay; Strong grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; Few (2 - 10 %), Argillaceous, Medium (2 -6 mm), Nodules; Gradual change to -
B2	0.6 - 0.9 m	Dark red (2.5YR3/6-Moist); ; Heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; Many (20 - 50 %), Argillaceous, Medium (2 -6 mm), Nodules;
B2	0.9 - 1.2 m	Dark red (2.5YR3/6-Moist); ; Heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; Many (20 - 50 %), Argillaceous, Medium (2 -6 mm), Nodules;
B2	1.2 - 1.4 m	Dark red (2.5YR3/6-Moist); ; Heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; Many (20 - 50 %), Argillaceous, Medium (2 -6 mm), Nodules; Gradual change to -
	1.4 - 1.5 m	Dark red (2.5YR3/6-Moist); ; Heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Strong consistence; 20-50%, Basalt, coarse fragments; Many (20 - 50 %), Argillaceous, Medium (2 -6 mm), Nodules; Gradual change to -

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1.5 - 1.8 m Dark red (2.5YR3/6-Moist); ; Heavy clay; Strong grade of structure, 2-5 mm, Angular blocky;
Smooth-ped fabric; Strong consistence; Few (2 - 10 %), Argillaceous, Medium (2 -6 mm),
Nodules; Gradual change to -

C 1.8 - 2 m ;

Morphological Notes

C Mostly mod. hard w'd TB with some strong AB<10MM red HC:

Observation Notes

140-180CM COARSE FRAGMENTS ARE MOD HARD WEATHERED TETIARY BASALT:CLAY TUBULAR FORMS EVIDENT
(5MM DIAM AN 10MM LONG):

Site Notes

WYANDOTTE CK.

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Laboratory Test Results:

[illegible][illegible][illegible]

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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
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)