Project Name: Regional

Project Code: Site ID: Observation ID: 1 REG T164

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

n

north of Reedy Brookturnoff:

Date Desc.: 13/10/70 Elevation: No Data Rainfall:

Sheet No.: 7861 1:100000 Map Ref.: Northing/Long.: Moderately rapid 144.736111111111 Runoff: Easting/Lat.: -18.4541666666667 Drainage: Moderately well drained

Geology

ExposureType: Conf. Sub. is Parent. Mat.: Undisturbed soil core No Data

Geol. Ref.: Czm **Substrate Material:** Undisturbed soil core, 2 m deep, Basalt

Land Form

Rel/Slope Class: Gently undulating rises 9-30m Pattern Type: Rises

1-3%

No Data Morph. Type: Relief: 12 metres Hillslope Slope Category: Gently inclined Elem. Type: No Data Slope: 0 % Aspect:

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification: N/A **Mapping Unit:** 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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CSIRO Division of Soils (QLD)

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 -1.5 - 1.8 m

С 1.8 - 2 m

Morphological Notes

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

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.

Observation ID: 1

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Laboratory Test Results:

Depth	рН	1:5 EC		hangeable Mg	Cations K	Na		angeable	CEC	:	ECEC		ESP
m		dS/m	Ca i	mg	K	Cmol (Clurty					%
0 - 0.1			18.7B	4.93	2.21	0.08							
0.1 - 0.2			18.6B	4.07	1.81	0.07							
0.2 - 0.3			12.3B	3.4	1.5	0.07							
0.3 - 0.6			10.7B	3.08	1.28	0.06							
0.6 - 0.9													
0.9 - 1.2 1.2 - 1.4													
1.2 - 1.4 1.4 - 1.5													
1.5 - 1.8			15B	6.42	1.71	0.07							
1.8 - 2			102	0.42	1.71	0.07							
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Tota K		Bulk Density	P GV	article CS	Size FS	Analys Silt	is Clay
m	%	%	mg/kg	%	%	%		Mg/m3			%		•
0 - 0.1		2.36D	433B	0.37A	0.16	:0 A O :	77A						
0.1 - 0.2		1.79D	372B	0.37A 0.035A			74A						
0.2 - 0.3		0.93D	259B	0.0007	0.12		777						
0.3 - 0.6		0.68D	191B	0.027A			57A						
0.6 - 0.9													
0.9 - 1.2		0.18D	48B										
1.2 - 1.4													
1.4 - 1.5		0.08D	040	0.0404			0.4						
1.5 - 1.8 1.8 - 2			21B	0.013A	١	1.	.8A						
1.0 - 2													
Depth	COLE		Grav	imetric/Vo	lumetric W	Vater Co	ntent	s		Ks	at	K uns	at
		Sat.	0.05 Bar		0.5 Bar	1 Bar	5	Bar 1	5 Bar				
m				g/g	g - m3/m3	3				mm	/n	mm/l	า
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 - 1.4													
1.4 - 1.5													
1.5 - 1.8													
1.8 - 2													

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Laboratory Analyses Completed for this profile

10A1 Total sulfur - X-ray fluorescence

Total element - Cu(mg/kg) - HF/HClO4 Digest 12_HF_CU 12_HF_FE 12_HF_MN 12_HF_ZN 15A2_CA Total element - Fe(%) - HF/HClO4 Digest Total element - Mn(mg/kg) - HF/HClO4 Digest Total element - Zn(mg/kg) - HF/HClO4 Digest

Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, pretreatment for

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

Total potassium - X-ray fluorescence 17A1

2A1 Air-dry moisture content

6A1_UC Organic carbon (%) - Uncorrected Walkley and Black method Total nitrogen - semimicro Kjeldahl, automated colour 7A2

Total phosphorus - X-ray fluorescence 9A1

Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES) 9G_BSES