Project Name: Regional

Project Code: REG Site ID: TL64 Observation ID: 1

Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: Webb, lan Locality:

 Date Desc.:
 10/09/86
 Elevation:
 No Data

 Map Ref.:
 Sheet No.: 7963
 1:100000
 Rainfall:
 0

 Northing/Long.:
 145.436111111111
 Runoff:
 Rapid

 Easting/Lat.:
 -17.3091666666667
 Drainage:
 Well drained

Geology

ExposureType: Soil pit Conf. Sub. is Parent. Mat.: No Data

Geol. Ref.: No Data
Substrate Material: , Rhyolite

Land Form

Rel/Slope Class:No DataPattern Type:No DataMorph. Type:Mid-slopeRelief:No DataElem. Type:No DataSlope Category:No DataSlope:21 %Aspect:208 degrees

Surface Soil Condition (dry): N/A

Erosion: Partial, Minor (sheet) Minor (gully)

Soil Classification

Australian Soil Classification: Mapping Unit: N/A
N/A Principal Profile Form: Gn3.71
ASC Confidence: Great Soil Group: Krasnozem

Confidence level not specified

Site Disturbance: No effective disturbance. Natural

Vegetation:

Surface Coarse Fragments:

Profile Morphology

0 - 0.05 m Dark brown (7.5YR3/2-Moist); , 7.5YR31; Light clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Rough-ped fabric; Very weak consistence; 2-10%, medium gravelly, 6-

20mm, subrounded, dispersed, Igneous rock (unidentified), coarse fragments; AbundantAbrupt,

Smooth change to -

 $0.05 - 0.1 \, m \qquad \text{Brown (7.5YR4/2-Moist); , 7.5YR32, 10-20\% , 5-15mm; , 10-20\% , 5-15mm; Light clay; Moderate} \\$

grade of structure, 5-10 mm, Subangular blocky; Rough-ped fabric; Very weak consistence; 2-10%, medium gravelly, 6-20mm, subrounded, dispersed, Igneous rock (unidentified), coarse

fragments; AbundantClear, Wavy change to -

0.1 - 0.2 m Brown (7.5YR5/4-Moist); , 7.5YR42, 10-20% , 5-15mm, Faint; , 10-20% , 5-15mm, Faint; Light

clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Rough-ped fabric; Very weak consistence; 2-10%, medium gravelly, 6-20mm, subrounded, dispersed, Igneous rock

(unidentified), coarse fragments; ManyGradual, Irregular change to -

0.2 - 0.48 m Strong brown (7.5YR5/5-Moist); , 7.5YR44, 2-10% , 5-15mm, Faint; , 2-10% , 5-15mm, Faint;

Light clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Rough-ped fabric; Very weak consistence; 2-10%, medium gravelly, 6-20mm, subrounded, dispersed, Igneous rock

(unidentified), coarse fragments; CommonDiffuse, Irregular change to -

0.48 - 0.75 m Brown (7.5YR4/4-Moist); , 7.5YR42, 20-50% , 5-15mm, Faint; , 20-50% , 5-15mm, Faint; Medium

clay; Weak grade of structure, 5-10 mm, Subangular blocky; Rough-ped fabric; Very firm consistence; 2-10%, medium gravelly, 6-20mm, subrounded, dispersed, Igneous rock (unidentified), coarse fragments; Few cutans, <10% of ped faces or walls coated; FewDiffuse,

Irregular change to -

0.75 - 1.1 m Strong brown (7.5YR5/5-Moist); , 2.5YR42, 2-10% , 0-5mm; , 2-10% , 0-5mm; Heavy clay;

Massive grade of structure, 5-10 mm, Subangular blocky; Very firm consistence; 2-10%, medium gravelly, 6-20mm, subrounded, dispersed, Igneous rock (unidentified), coarse fragments; Few

cutans, <10% of ped faces or walls coated; FewDiffuse, Irregular change to -

1.1 - 1.5 m Reddish yellow (7.5YR6/6-Moist); , 2.5YR42, 20-50% , 0-5mm; , 20-50% , 0-5mm; Massive grade

of structure, 5-10 mm, Subangular blocky; Very firm consistence; Few cutans, <10% of ped

faces or walls coated; Few

1.5 - 2 m Reddish yellow (7.5YR6/5-Moist); , 2.5YR42, 20-50% , 0-5mm; , 20-50% , 0-5mm;

Morphological Notes

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WAS ORIGINALLY EP43:M3638-M3646:

Site Notes Atherton

Regional REG Site ID: TL64 CSIRO Division of Soils (QLD) Observation ID: 1

Project Name: Project Code: Agency Name:

Laboratory Test Results:	L	abo	ratorv	Test	Res	ults:
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Donth		1:5 EC	Evo	hanaaabla	Cations	_		CEC	ECEC	ESP
Depth	рН			hangeable Mg	K	Na	Exchangeable Acidity	CEC	ECEC	
m		dS/m				Cmol (+)	/kg			%
0 - 0.05	4.8A 4.4I		1.63H	1.27	0.55	0.91	1.86F 1.4B		6.22B	
0.05 - 0.1	4.8A 4.3I		0.43H	0.53	0.35	0.06	0.46H 2.39F 1.9B		3.76B	
0.1 - 0.2	4.7A 4.2l		0.13H	0.28	0.25	0.06	0.49H 2.47F 1.74B		3.19B	
0.2 - 0.3	4.8A 4.3I		0.13H	0.24	0.15	0.05	0.73H 2.16F 1.69B 0.47H		2.73B	
0.3 - 0.6	4.6A 4.3I		0.08H	0.16	0.11	0.04	1.82F 1.44B 0.38H		2.21B	
0.6 - 0.9	4.6A 4.2I		0.08H	0.2	0.08	0.04	2.84F 2.26B 0.58H		3.24B	
0.9 - 1.2	4.6A 4.1I		0.07H	0.15	0.09	0.04	3F 2.52B 0.48H		3.35B	
1.2 - 1.5	4.6A 4I		0.07H	0.08	0.11	0.04	3.78F 3.12B 0.66H		4.08B	
1.5 - 2	4.5A 4I		0.1H	0.07	0.12	0.04	4.39F 3.43B 0.96H		4.72B	
Depth m	CaCO3	Organic C %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	Particle GV CS	Size A FS %	nalysis Silt Clay
	70	/0	ilig/kg	/0	/0	/0	Wig/iii3		/0	
0 - 0.05 0.05 - 0.1 0.1 - 0.2							0.80			
0.2 - 0.3							1.20			
0.3 - 0.6 0.6 - 0.9 0.9 - 1.2							1.30 1.50			
1.2 - 1.5 1.5 - 2							1.50			
Depth	COLE		Grav	/imetric/Vo	olumetric V	later Cont	ents	K	sat I	K unsat
m		Sat.	0.05 Bar	0.1 Bar g/	0.5 Bar g - m3/m	1 Bar 3	5 Bar 15 E	Bar mn	n/h	mm/h
0 - 0.05 0.05 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.6 0.6 - 0.9										

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0.9 - 1.2 1.2 - 1.5 1.5 - 2

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Laboratory Analyses Completed for this profile

15E1_CA

Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble 15E1_K

Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts

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titration to pH 8.4

15G_C_AL1

Exchangeable aluminium - meq per 100g of soil - Aluminium By difference of C and A or B

Exchangeable hydrogen - meq per 100g of soil - Hydrogen By back titration of A or B

Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen)

4A_C_2.5 pH of soil - pH of 1:2.5 soil/water suspension

4A1 pH of 1:5 soil/water suspension P3A_NR Bulk density - Not recorded