

**Project Name:** Regional  
**Project Code:** REG **Site ID:** TL64 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

**Site Information**

<b>Desc. By:</b>	Webb, Ian	<b>Locality:</b>	
<b>Date Desc.:</b>	10/09/86	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	Sheet No. : 7963 1:100000	<b>Rainfall:</b>	0
<b>Northing/Long.:</b>	145.436111111111	<b>Runoff:</b>	Rapid
<b>Easting/Lat.:</b>	-17.309166666667	<b>Drainage:</b>	Well drained

**Geology**

<b>ExposureType:</b>	Soil pit	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	, Rhyolite

**Land Form**

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	No Data
<b>Morph. Type:</b>	Mid-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	No Data	<b>Slope Category:</b>	No Data
<b>Slope:</b>	21 %	<b>Aspect:</b>	208 degrees

**Surface Soil Condition (dry):** N/A

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

**Soil Classification**

<b>Australian Soil Classification:</b>	N/A	<b>Mapping Unit:</b>	N/A
<b>ASC Confidence:</b>	Confidence level not specified	<b>Principal Profile Form:</b>	Gn3.71
		<b>Great Soil Group:</b>	Krasnozem

**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	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

**Observation Notes**

**Observation ID: 1**

[illegible]

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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 (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) by compulsive exchange, no pretreatment for soluble
15E1_K	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15G_C	Exchange acidity (hydrogen and aluminium) - meq per 100g of soil - By 1M KCl exch. acidity by titration to pH 8.4
15G_C_AL1	Exchangeable aluminium - meq per 100g of soil - Aluminium By difference of C and A or B
15G_C_H1	Exchangeable hydrogen - meq per 100g of soil - Hydrogen By back titration of A or B
15J_H	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