Project Name: **Regional**
Project Code: **REG** **Site ID:** **TL60** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (QLD)**

Site Information

Desc. By: Webb, Ian
Date Desc.: 13/07/83
Map Ref.: Sheet No. : 7162 1:100000
Northing/Long.: 141.55
Easting/Lat.: -17.7416666666667
Locality:
Elevation: No Data
Rainfall: 0
Runoff: No runoff
Drainage: Well drained

Geology

ExposureType: Existing vertical exposure
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: , Unconsolidated material (unidentified)

Land Form

Rel/Slope Class: No Data
Morph. Type: Upper-slope
Elem. Type: No Data
Slope: 8 %
Pattern Type: No Data
Relief: No Data
Slope Category: No Data
Aspect: No Data

Surface Soil Condition (dry): N/A

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

Soil Classification

Australian Soil Classification:
N/A
ASC Confidence:
Confidence level not specified
Mapping Unit: N/A
Principal Profile Form: Uc6.14
Great Soil Group: Earthy sand

Site Disturbance: No effective disturbance. Natural

Vegetation:

Tall Strata - Tree, >35.01m, . *Species includes - None Recorded

Surface Coarse Fragments:

Profile Morphology

0 - 0.05 m	Very dark grey (10YR3/1-Moist); ; Fine sandy loam; Weak grade of structure, 5-10 mm; Moderate grade of structure, 2-5 mm, Cast; Rough-ped fabric; Fine, (0 - 5) mm crack; Very weak consistence; AbundantAbrupt, Smooth change to -
0.05 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); ; Fine sandy loam; Weak grade of structure, 5-10 mm; Moderate grade of structure, 2-5 mm, Cast; Rough-ped fabric; Fine, (0 - 5) mm crack; Very weak consistence; ManyAbrupt, Smooth change to -
0.1 - 0.3 m	Dark brown (10YR3/3-Moist); ; Fine sandy loam; Weak grade of structure, 10-20 mm; Moderate grade of structure, 2-5 mm, Cast; Rough-ped fabric; Fine, (0 - 5) mm crack; Very weak consistence; ManyClear, Smooth change to -
0.3 - 0.6 m	Brown (10YR4/3-Moist); , 10YR64, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Fine sandy loam; Weak grade of structure, 20-50 mm, Angular blocky; Rough-ped fabric; Fine, (0 - 5) mm crack; Weak consistence; CommonDiffuse, Smooth change to -
0.6 - 1.5 m	Dark yellowish brown (10YR4/4-Moist); , 10YR64, 2-10% , 5-15mm, Distinct; , 2-10% , 5-15mm, Distinct; Fine sandy loam; Weak grade of structure, 50-100 mm, Angular blocky; Rough-ped fabric; Fine, (0 - 5) mm crack; Weak consistence; FewDiffuse, Smooth change to -
1.5 - 1.8 m	Dark yellowish brown (10YR4/6-Moist); , 10YR44, 2-10% , 5-15mm, Faint; , 2-10% , 5-15mm, Faint; Fine sandy loam; Weak grade of structure, 50-100 mm, Angular blocky; Rough-ped fabric; Fine, (0 - 5) mm crack; Weak consistence; Few

Morphological Notes

Observation Notes

WAS ORIGINALLY EP42:

Site Notes

Iron Range

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
0 - 0.05	4.6D 5.2A 5I		4.05H	2.06	0.25	0.09	0.09F 0.03B 0.06H	5.9J	6.54B	1.53
0.05 - 0.1	4.4D 5.1A 4.7I		2.49H	1.34	0.15	0.07	0.27F 0.18B 0.09H	4.2J	4.32B	1.67
0.1 - 0.2	4.2D 4.9A 4.5I		3.29H	1.11	0.19	0.06	0.46F 0.36B 0.1H	3.4J	5.11B	1.76
0.2 - 0.3	4D 5A 4.4I		2.29H	0.85	0.1	0.05	0.77F 0.66B 0.11H	2.8J	4.06B	1.79
0.3 - 0.6	4D 5.1A 4.6I		2.65H	1.18	0.18	0.08	0.49F 0.37B 0.12H	3J	4.58B	2.67
0.6 - 0.9	4.2D 5.4A 4.8I		1.41H	0.94	0.04	0.06	0.24F 0.13B 0.11H	3.1J	2.69B	1.94
0.9 - 1.2			1.28H	1.02	0.14	0.05	0.34F 0.18B 0.16H		2.83B	
1.2 - 1.5			1.18H	1.33	0.09	0.05	0.23F 0.05B 0.18H	3.2J	2.88B	1.56
1.5 - 1.8			0.99H	1.48	0.06	0.05	0.21F 0.04B 0.17H	3.1J	2.79B	1.61

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis				
								GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.05		2.13D							6A	73	7	14
0.05 - 0.1		1.53D							6A	73	7	16
0.1 - 0.2		1.11D					1.30		6A	72	7	15
0.2 - 0.3		0.4D							4A	73	8	15
0.3 - 0.6		0.43D					1.40		3A	70	10	17
0.6 - 0.9		0.24D							2A	71	9	18
0.9 - 1.2		0.23D					1.40		3A	69	9	19
1.2 - 1.5		0.16D							2A	70	9	19
1.5 - 1.8		0.15D							2A	71	9	18

Depth	COLE	Gravimetric/Volumetric Water Contents							K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m		g/g - m3/m3							mm/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										

m	dS/m	Cmol (+)/kg	%

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0.9 - 1.2
1.2 - 1.5
1.5 - 1.8

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Laboratory Analyses Completed for this profile

15_NR_CEC	CEC - meq per 100g of soil - Not recorded
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
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
4C1	pH of 1:5 soil/1M potassium chloride extract - direct
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
P10_CF_C	Clay (%) - Coventry and Fett pipette method
P10_CF_CS	Coarse sand (%) - Coventry and Fett pipette method
P10_CF_FS	Fine sand (%) - Coventry and Fett pipette method
P10_CF_Z	Silt (%) - Coventry and Fett pipette method
P3A_NR	Bulk density - Not recorded