Project Name: **Regional**
Project Code: **REG** **Site ID:** **TL55** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (QLD)**

Site Information

Desc. By:	Webb, Ian	**Locality:**	
Date Desc.:	15/01/84	**Elevation:**	No Data
Map Ref.:	Sheet No. : 7965 1:100000	**Rainfall:**	0
Northing/Long.:	145.1	**Runoff:**	Rapid
Easting/Lat.:	-16.2833333333333	**Drainage:**	Well drained

Geology

ExposureType:	Soil pit	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	No Data	**Substrate Material:**	Granite

Land Form

Rel/Slope Class:	No Data	**Pattern Type:**	No Data
Morph. Type:	Mid-slope	**Relief:**	No Data
Elem. Type:	No Data	**Slope Category:**	No Data
Slope:	10 %	**Aspect:**	350 degrees

Surface Soil Condition (dry): N/A

Erosion: Partial, Moderate (sheet)

Soil Classification

Australian Soil Classification:
N/A
ASC Confidence:
Confidence level not specified

Mapping Unit: N/A
Principal Profile Form: Gn3.14
Great Soil Group: Red podzolic soil

Site Disturbance: No effective disturbance. Natural

Vegetation:

Surface Coarse Fragments:

Profile Morphology

0 - 0.03 m	Brown (7.5YR4/4-Moist); ; Sandy clay loam; Single grain grade of structure; Very weak consistence; 20-50%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; AbundantSharp, Smooth change to -
0.03 - 0.05 m	Strong brown (7.5YR4/6-Moist); ; Clay loam, fine sandy; Moderate grade of structure, 5-10 mm, Subangular blocky; Rough-ped fabric; Weak consistence; 10-20%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; ManyAbrupt, Smooth change to -
0.05 - 0.1 m	Yellowish red (5YR4/6-Moist); ; Clay loam, fine sandy; Moderate grade of structure, 5-10 mm, Subangular blocky; Rough-ped fabric; Weak consistence; 10-20%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; CommonSmooth change to -
0.1 - 0.3 m	Red (2.5YR4/6-Moist); ; Sandy clay loam; Weak grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Weak consistence; 2-10%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; CommonClear, Smooth change to -
0.3 - 0.6 m	Red (2.5YR4/6-Moist); ; Light medium clay; Weak grade of structure, 10-20 mm, Angular blocky; Firm consistence; 10-20%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; FewGradual, Smooth change to -
0.6 - 0.9 m	Red (2.5YR4/6-Moist); ; Light medium clay; Weak grade of structure, 20-50 mm, Angular blocky; Rough-ped fabric; Very firm consistence; 10-20%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; FewDiffuse, Smooth change to -
0.9 - 1.8 m	Red (2.5YR4/6-Moist); ; Light medium clay; Weak grade of structure, 20-50 mm, Angular blocky; Rough-ped fabric; Very firm consistence; 10-20%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; Gradual, Smooth change to -
1.8 - 2.4 m	Red (2.5YR4/8-Moist); ; Light medium clay; Weak grade of structure, 20-50 mm, Angular blocky; 10-20%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments;

Morphological Notes

Observation Notes

WAS ORIGINALLY EP44:M3610-M3618:

Site Notes

MT. WINDSOR

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations Ca	Mg	K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.05	4D		1.5H	2.42	0.51	0.24	1.6F	4.9J	6.27B	4.90
	4.4A						0.78B			
	4I						0.82H			
0.05 - 0.1	4.2D		0.27H	0.8	0.26	0.14	0.99F	3.8J	2.46B	3.68
	4.4A						0.58B			
	4.2I						0.41H			
0.1 - 0.2	4.3D		0.1H	0.57	0.16	0.12	0.86F	2.8J	1.81B	4.29
	4.6A						0.52B			
	4.3I						0.34H			
0.2 - 0.3	4.5D		0.1H	0.24	0.06	0.05	0.55F	2.5J	1B	2.00
	4.2A						0.38B			
	4.1I						0.17H			
0.3 - 0.6	4.54D		0.08H	0.17	0.04	0.05	0.72F	2.3J	1.06B	2.17
	4.5A						0.72B			
	4.2I						0H			
0.6 - 0.9	4.4D		0.07H	0.15	0.04	0.06	0.82F	1.7J	1.14B	3.53
	4.6A						0.77B			
	4.2I						0.05H			
0.9 - 1.2	4.5A		0.07H	0.22	0.04	0.06	0.66F		1.05B	
	4.2I						0.6B			
							0.06H			
1.2 - 1.5	4.6A		0.07H	0.43	0.03	0.04	0.44F		1.01B	
	4.2I						0.4B			
							0.04H			
1.5 - 1.8	4.6A		0.07H	0.55	0.05	0.04	0.4F		1.11B	
	4.2I						0.34B			
							0.06H			
1.8 - 2.1	4.6A		0.07H	0.57	0.053	0.04	0.22F		0.95B	
	4.3I						0.22B			

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		10.4D										
0.05 - 0.1		5.37D										
0.1 - 0.2		3.86D										
0.2 - 0.3		2.31D										
0.3 - 0.6		1.37D										
0.6 - 0.9		1.03D										
0.9 - 1.2		0.91D										
1.2 - 1.5		0.7D										
1.5 - 1.8		0.55D										
1.8 - 2.1		0.36D										

Depth	COLE	Gravimetric/Volumetric Water Contents Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	K sat	K unsat
m		g/g - m3/m3							mm/h	mm/h
0 - 0.05										
0.05 - 0.1										
0.1 - 0.2										

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0.2 - 0.3
0.3 - 0.6
0.6 - 0.9
0.9 - 1.2
1.2 - 1.5
1.5 - 1.8
1.8 - 2.1

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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