Project Name: Regional

Project Code: REG Site ID: T60 Observation ID: 1

Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: R.F. Isbell Locality: 5.1KM east along cleared line from Lorium Point

turnoff:

 Date Desc.:
 //
 Elevation:
 15 metres

 Map Ref.:
 Sheet No.: 7272
 1:100000
 Rainfall:
 1600

Northing/Long.: 141.95 Runoff: Moderately rapid

Easting/Lat.: -12.6666666666667 **Drainage:** No Data

Geology

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

Geol. Ref.: TQa Substrate Material: Existing vertical exposure, >2mm

mm, Detrital sedimentary rock (unidentified)

Land Form

 Rel/Slope Class:
 Level plain <9m <1%</th>
 Pattern Type:
 Plain

 Morph. Type:
 Flat
 Relief:
 No Data

 Elem. Type:
 Plain
 Slope Category:
 Level

 Slope:
 0 %
 Aspect:
 No Data

Surface Soil Condition (dry): Loose, Soft

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/ABauxitic Dystrophic Red KandosolPrincipal Profile Form:Gn2.14ASC Confidence:Great Soil Group:Red earth

All necessary analytical data are available.

Site Disturbance: No effective disturbance. Natural

Vegetation: Low Strata - Tussock grass, 0.51-1m, Mid-dense. *Species includes - None recorded

Mid Strata - Tree, 3.01-6m, Very sparse. *Species includes - Acacia species, Grevillea species

Tall Strata - Tree, 12.01-20m, Mid-dense. *Species includes - Eucalyptus tetrodonta, Eucalyptus polycarpa

Surface Coarse Fragments: 90-100%, fine gravelly, 2-6mm, rounded, Alcrete (bauxite)

Profile Morphology

0 - 0.1 m Very dark greyish brown (10YR3/2-Moist); Dark greyish brown (10YR4/2-Dry); ; Loam; Moderate grade of structure, 2-5 mm, Granular; Very firm consistence; Many (20 - 50 %), Aluminous, Medium (2 -6 mm), Concretions; Field pH 6.5 (pH meter); ManyClear change to -0.1 - 0.25 m Strong brown (7.5YR4/5-Moist); Reddish yellow (7.5YR6/5-Dry); ; Sandy clay loam; Weak grade A2 of structure, 5-10 mm, Angular blocky; Massive grade of structure; Very firm consistence; Few (2 - 10 %), Aluminous, Medium (2 -6 mm), Concretions; Gradual change to -B1 0.25 - 0.51 m Yellowish red (5YR4/6-Moist); Yellowish red (5YR5/6-Dry); ; Clay loam; Massive grade of structure; Loose consistence; Many (20 - 50 %), Aluminous, Medium (2 -6 mm), Concretions; Diffuse change to -Yellowish red (5YR4/6-Moist); Yellowish red (5YR5/6-Dry); ; Clay loam; Massive grade of B2 0.51 - 0.76 m structure; Earthy fabric; Loose consistence; Very many (50 - 100 %), Aluminous, Medium (2 -6 mm), Concretions: B2

0.76 - 1.07 m Yellowish red (5YR4/6-Moist); Yellowish red (5YR5/6-Dry); ; Light clay; Massive grade of structure; Earthy fabric; Loose consistence; Very many (50 - 100 %), Aluminous, Medium (2 -6

mm), Concretions; Field pH 6.8 (pH meter, 1.07);

Morphological Notes

Observation Notes

B2 HORIZON EARTHY MATRIX WITH HEAVY PISOLITES:

Site Notes

WEIPA

Project Name: Project Code: Agency Name: Regional
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Laboratory Test Results:

Depth	рН	1:5 EC		nangeable //g	Cations K	Ex Na	changeable Acidity	CEC		ECEC	E	SP
m		dS/m	,a ii	"g	K	Cmol (+)/l					9	6
0 - 0.1	6.3A	0.038A	3.5B	3.3	0.1	0.29						
0.1 - 0.25	6A	0.026A	0.00	0.0	0.04	0.00						
0.25 - 0.51	5.9A	0.023A	0.6B	8.0	0.04	0.22						
0.51 - 0.76	5.9A	0.023A	0.2B	0.6	0.08	0.24						
0.76 - 1.07	5.9A	0.017A										
Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Pa	rticle	Size A	Analysis	
		С	P	Р	N	K	Density	G۷	CS	FS	Silt (Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1		2.68D		0.033	A 0.1	4A 0.01	4	28	27D	25	15	29
0.1 - 0.25					0.0	6A		7	28D	27	13	33
0.25 - 0.51								31	21D	31	11	36
0.51 - 0.76				0.021	Ą	0.02	4	72	25D	28	9	37
0.76 - 1.07												
Depth	COLE	OLE Gravimetric/Volumetric Water Contents K sat K unsat										
2000	J J L L	Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar		Bar				
m		ou	J.30 Bul		g - m3/m		- Dui 10		mm/	'h	mm/h	

0 - 0.1 0.1 - 0.25

0.25 - 0.51 0.51 - 0.76 0.76 - 1.07

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Laboratory Analyses Completed for this profile

10A1 Total sulfur - X-ray fluorescence

15A2_CA Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, pretreatment for

soluble salts

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

17A1 Total potassium - X-ray fluorescence

Air-dry moisture content 2A1 3A1 EC of 1:5 soil/water extract pH of 1:5 soil/water suspension 4A1

6A1_UC Organic carbon (%) - Uncorrected Walkley and Black method

7A2 Total nitrogen - semimicro Kjeldahl , automated colour

9A1 Total phosphorus - X-ray fluorescence Exchange Capacity - Minerology MIN_EC

P10_GRAV Gravel (%)

P10_PB_C Clay (%) - Plummet balance P10_PB_CS P10_PB_FS Coarse sand (%) - Plummet balance Fine sand (%) - Plummet balance P10_PB_Z Silt (%) - Plummet balance XRD_C_Bm XRD_C_Ch2 Boehmite - X-Ray Diffraction

Chloritized 2:1 minerals - X-Ray Diffraction

Gibbsite - X-Ray Diffraction XRD_C_Gb XRD_C_Hm Hematite - X-Ray Diffraction XRD_C_Ka Kaolin - X-Ray Diffraction XRD_C_Qz Quartz - X-Ray Diffraction