Project Name: Project Code: Agency Name:	Regional REG Site ID: CSIRO Division of Soils (C		bservation ID:	1			
<u>Site Informatic</u> Desc. By:	<u>n</u> R.F. Isbell	Locality:	0 6KM west of M	t.Spec Post Office on Running River			
Date Desc.: Map Ref.: Northing/Long.: Easting/Lat.:	13/11/68 Sheet No. : 8159 1:100000 146.2 -19.0125	Elevation: Rainfall: Runoff: Drainage:	Road: 914 metres 2032 Very slow No Data				
<u>Geology</u> ExposureType: Geol. Ref.:	Undisturbed soil core Cuy	Conf. Sub. is Pare Substrate Materia	II: Undist	ta urbed soil core, Igneous rock ntified)			
Land Form Rel/Slope Class: Morph. Type: Elem. Type: Slope:	Undulating rises 9-30m 3-10% No Data Hillslope 0 %	Pattern Type: Relief: Slope Category: Aspect:	Plain 15 metres Gently inclined No Data				
Surface Soil C Erosion:	ondition (dry): Firm						
Soil Classifica	ion						
ASC Confidence All necessary an	Dystrophic Yellow Kandosol e: alytical data are available.	Princ Great	ing Unit: pal Profile Form: Soil Group:	N/A Gn3.84 Xanthozem			
Vegetation:	ce: No effective disturbance. Natu	iral					
Surface Coars Profile Morpho							
A11 0-0.1 n	Very dark greyish brown (1	structure, 2-5 mm, G	ranular; Moderately	2-Dry); ; Sandy clay loam v moist; Weak consistence;			
A12 0.1 - 0.2		ar blocky; Moderately		pam (Light); Weak grade of stence; Many, fine (1-2mm)			
A21 0.2 - 0.3		Yellowish brown (10YR5/4-Moist); Very pale brown (10YR7/3-Dry); ; Sandy clay loam; Weak grade of structure, 5-10 mm, Angular blocky; Moderately moist; Weak consistence; ManyGradual change to -					
A22 0.3 - 0.4	m Brownish yellow (10YR6/5 Weak grade of structure, 5 macropores, Moderately m	5-10 mm, Angular bloo	cky; Common (1-5	; Sandy clay loam (Heavy); ber 100mm2) Fine (1-2mm) ange to -			
B1 0.4 - 0.6		m, Angular blocky; Sr	nooth-ped fabric; F	ew (<1 per 100mm2) Fine (1-			
B21 0.6 - 0.9	, , ,	r; Weak grade of struc n2) Fine (1-2mm) mag	ture, 10-20 mm, A	aint; , 10YR76, 10-20% , 5- ngular blocky; Smooth-ped ly moist; Very firm			
B22 0.9 - 1.2		of structure, 10-20 m	m, Angular blocky;	, 10-20% , 5-15mm, Distinct; Smooth-ped fabric; Few (<1 rm consistence; Gradual			
B22 1.2 - 1.5		of structure, 10-20 m	m, Angular blocky;	, 10-20% , 5-15mm, Distinct; Smooth-ped fabric; Few (<1 rm consistence; Gradual			

Projec	ct Code: R	egional EG Site ID: T82 Observation ID: 1 SIRO Division of Soils (QLD)
B23	1.5 - 1.8 m	Reddish yellow (5YR7/8-Moist); , 7.5YR78, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Medium clay; Weak grade of structure, 10-20 mm, Angular blocky; Moderately moist; Firm consistence;
B23	1.8 - 2.1 m	Reddish yellow (5YR7/8-Moist); , 7.5YR78, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Medium clay; Weak grade of structure, 10-20 mm, Angular blocky; Moderately moist; Firm consistence; Gradual change to -
B24	2.1 - 2.4 m	Reddish yellow (5YR7/8-Moist); , 7.5YR78, 2-10% , 5-15mm, Distinct; , 2-10% , 5-15mm, Distinct; Heavy clay; Weak grade of structure, 10-20 mm, Angular blocky; Moderately moist; Firm consistence; Gradual change to -
B25	2.4 - 2.7 m	Reddish yellow (7.5YR7/6-Moist); , 5YR66, 10-20% , 5-15mm, Faint; , 10-20% , 5-15mm, Faint; Light medium clay; Weak grade of structure, 10-20 mm, Angular blocky; Moderately moist; Firm consistence; 2-10%, medium gravelly, 6-20mm, Quartz, coarse fragments; Gradual change to -
B31	2.7 - 3 m	Reddish yellow (7.5YR7/8-Moist); , 5YR66, 2-10% , 5-15mm, Faint; , 2-10% , 5-15mm, Faint; Light medium clay; Weak grade of structure, 10-20 mm, Angular blocky; Moderately moist; Firm consistence; 2-10%, Quartz, coarse fragments;
B31	3 - 3.3 m	Reddish yellow (7.5YR7/8-Moist); , 5YR66, 2-10% , 5-15mm, Faint; , 2-10% , 5-15mm, Faint; Light medium clay; Weak grade of structure, 10-20 mm, Angular blocky; Moderately moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments;
B31	3.3 - 3.6 m	Reddish yellow (7.5YR7/8-Moist); , 5YR66, 2-10% , 5-15mm, Faint; , 2-10% , 5-15mm, Faint; Light medium clay; Weak grade of structure, 10-20 mm, Angular blocky; Moderately moist; Firm consistence; 0-2%, Quartz, coarse fragments; Gradual change to -
BC	3.6 - 3.9 m	Yellow (10YR7/8-Moist); , 5YR66, 2-10% , 5-15mm, Faint; , 2-10% , 5-15mm, Faint; Light clay; Massive grade of structure; Earthy fabric; Moderately moist; Weak consistence; 0-2%, Quartz, coarse fragments; Gradual change to -
BC	3.9 - 4.2 m	Brownish yellow (10YR6/8-Moist); , 2.5YR56, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Light clay; Massive grade of structure; Earthy fabric; Moderately moist; Weak consistence; 0-2%, Quartz, coarse fragments; Gradual change to -
	4.2 - 4.5 m	Brownish yellow (10YR6/8-Moist); , 2.5YR56, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Light clay; Massive grade of structure; Earthy fabric; Weak consistence; 0-2%, Quartz, coarse fragments; Field pH 4.5 (pH meter); Gradual change to -
С	4.5 - 4.9 m	Brownish yellow (10YR6/8-Moist); , 2.5YR56, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Light clay; Massive grade of structure; Earthy fabric; Moderately moist; Weak consistence; 0-2%, Gravel, coarse fragments;

Morphological Notes

Observation Notes AT 260-490CM IS A 1-2CM QUARTZ VIEN:>210CM WHITE WEATHERED FELDSPAR INCREASING:C HORIZON ROCK FABRIC EVIDENT:

Site Notes

MT SPEC

Project Name:	Regional		
Project Code:	REĞ	Site ID:	T82
Agency Name:	CSIRO Division	of Soils (C	QLD)

Laboratory Test Results:

Depth	рН	1:5 EC		angeable Ig	Cations K	E: Na	xchangeable Acidity	CEC		ECEC	E	SP
m		dS/m	a IV	ig	ĸ	Cmol (+)/					%	6
0 - 0.1	4.6A	0.19A	0.71B	0.88	0.18	1.03						
0.1 - 0.2	4.7A	0.068A	0.08B	0.37	0.16	0.16						
0.2 - 0.3	4.9A	0.041A	0.08B	0.2	0.09	0.12						
0.3 - 0.4	5A	0.032A										
0.4 - 0.6	5A	0.02A	0.08B	0.26	0.02	0.11						
0.6 - 0.9	5A	0.02A	0.08B	0.3	0.08	0.02						
0.9 - 1.2	4.8A	0.02A										
1.2 - 1.5	4.9A	0.023A	0.08B	0.26	0.02	0.01						
1.5 - 1.8	4.8A	0.023A										
1.8 - 2.1	4.8A	0.023A	0.08B	0.16	0.01	0.01						
2.1 - 2.4	4.8A	0.029A										
2.4 - 2.7	4.7A	0.026A										
2.7 - 3	4.8A	0.02A										
3 - 3.3	4.8A	0.023A										
3.3 - 3.6	4.7A	0.026A										
3.6 - 3.9	4.7A	0.029A										
3.9 - 4.2	4.8A	0.032A										
4.2 - 4.5	4.8A	0.026A										
4.5 - 4.9	4.8A	0.026A										
Danth	CaCO3	Ornenia	Avail	Total	Total	Total	Bulk	De	rticle	C: A.	- alvaia	
Depth	CaCU3	Organic C	Avail. P	P	N	K	Density	GV	CS	Size Ar FS	Silt (lav
m	%	%	ng/kg	%	%	%	Mg/m3	01	00	%	one c	Jiay
							0					
0 - 0.1		4.5D	6A	0.018A	0.32	26A 0.056	SA	<2	38D	13	5	28
			11.1B									
0.1 - 0.2		2.7D	4A 8.2B	0.012A	0.20	0.058 0.058	3A	<2	47D	13	6	27

Observation ID: 1

0 - 0.1	4.5D	6A 11.1B	0.018A	0.326A	0.056A	<2	38D	13	5	28
0.1 - 0.2	2.7D	4A 8.2B	0.012A	0.202A	0.058A	<2	47D	13	6	27
0.2 - 0.3	0.9D	3A 4.9B	0.01A	0.152A	0.046A	<2	43D	18	5	32
0.3 - 0.4										
0.4 - 0.6			0.006A		0.105A	<2	38D	15	16	31
0.6 - 0.9			0.005A	0.016A	0.125A	<2	32D	16	28	25
0.9 - 1.2										
1.2 - 1.5			0.006A		0.092A	<2	36D	15	15	30
1.5 - 1.8										
1.8 - 2.1			0.005A	0.002A	0.032A	<2	32D	16	21	32
2.1 - 2.4										
2.4 - 2.7										
2.7 - 3										
3 - 3.3			0.006A		0.131A					
3.3 - 3.6										
3.6 - 3.9										
3.9 - 4.2			0.005A		0.035A					
4.2 - 4.5										
4.5 - 4.9			0.005A		0.059A					

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	3			mm/h	mm/h

0 - 0.1

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0.1 - 0.2	
0.2 - 0.3	
0.3 - 0.4	
0.4 - 0.6	
0.6 - 0.9	
0.9 - 1.2	
1.2 - 1.5	
1.5 - 1.8	
1.8 - 2.1	
2.1 - 2.4	
2.4 - 2.7	
2.7 - 3	
3 - 3.3	
3.3 - 3.6	
3.6 - 3.9	
3.9 - 4.2	

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4.2 - 4.5 4.5 - 4.9

Project Name:	Regional		
Project Code:	REG	Site ID:	T82
Agency Name:	CSIRO Divisi	on of Soils (C	QLD)

Observation ID: 1

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
2A1	Air-dry moisture content
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9A1	Total phosphorus - X-ray fluorescence
9B_9C	Available P (mg/kg) - Bicarbonate P - 0.5M NaHCO3 extractable
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)
P10_GRAV	Gravel (%)
P10_PB_C	Clay (%) - Plummet balance
P10_PB_CS	Coarse sand (%) - Plummet balance
P10_PB_FS	Fine sand (%) - Plummet balance
P10_PB_Z	Silt (%) - Plummet balance
XRD_C_Ch2	Chloritized 2:1 minerals - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction