Projec	et Name: et Code: ey Name:	RE	gional G Site ID: IRO Division of Soils (QI		Observatio	on ID:	1
Desc. E Date De Map Re Northir Easting	esc.: ef.: ng/Long.: g/Lat.:	M.G. 24/11 Shee 145.9	Cannon //83 t No. : 8061 1:100000 )30555555556 6388888888889	Locality: Elevation: Rainfall: Runoff: Drainage:	30 metre 2250 Very slow Poorly dra	/	
<u>Geolo</u> Exposi Geol. R	ireType:	Undi: QA	sturbed soil core	Conf. Sub. is Par Substrate Materia		No Dat Uncons	a solidated material (unidentified)
Morph. Elem. 1 Slope: <u>Surfac</u>	pe Class: Type: Type: Se Soil Co	Flat Fan 0.5 %		Pattern Type: Relief: Slope Category: Aspect:	Plain No Data Level No Data		
Erosio Soil Cl	<u>n.</u> Iassificati	ion					
Austral Mottled ASC C	ian Soil C Magnesic onfidence	l <b>assifi</b> Grey ł	Kandosol	Princ	ing Unit: ipal Profile Soil Group		N/A Gn2.81 No suitable group
	•	•	data are available.	-1			
Vegeta			o effective disturbance. Natura ow Strata - Tussock grass, 0.5		Species inc	ludos - )	(anthorrhoea iohnsonii
vegen			id Strata - Tree, 3.01-6m, Ver				
		Та	all Strata - Tree, 6.01-12m, Sp	parse. *Species inclu	udes - Melal	euca vir	idiflora, Casuarina littoralis
<u>Surfac</u>	e Coarse	Frag	ments: 2-10%, fine gravelly	y, 2-6mm, subangula	ar, Quartz		
	Morphol						
A	0 - 0.1 m		(Light); Massive grade of s	tructure; Earthy fabi subangular, dispers	ric; Moderat	ely mois	0-0% ; Coarse sandy clay loam t; Very weak consistence; 2- ragments; Common, fine (1-
AB	0.1 - 0.17	'n	30mm, Distinct; Clay loam,	coarse sandy (Light ak consistence; 2-10	); Massive g %, fine grav	rade of velly, 2-6	mm, subangular, dispersed,
B1	0.17 - 0.2	2 m	Light grey (10YR7/2-Moist); grade of structure; Earthy fa 6mm, subangular, disperse	abric; Moderately mo	oist; Weak c	onsisten	ce; 2-10%, fine gravelly, 2-
B1	0.2 - 0.28	3 m	Light grey (10YR7/2-Moist); grade of structure; Earthy fa 6mm, subangular, disperse Smooth change to -	abric; Moderately mo	oist; Weak c	onsisten	ce; 2-10%, fine gravelly, 2-
B21	0.28 - 0.3	3 m	Light brownish grey (2.5Y6/ 50% , 15-30mm, Distinct; S Moderately moist; Weak co Quartz, coarse fragments; F	andy medium clay; l nsistence; 2-10%, fi	Massive gra	de of str	ucture; Earthy fabric;
B21	0.3 - 0.45	5 m	Light brownish grey (2.5Y6/ 50% , 15-30mm, Distinct; S Moderately moist; Weak co Quartz, coarse fragments; F	andy medium clay; l nsistence; 2-10%, fi	Massive gra ne gravelly,	de of str 2-6mm,	ucture; Earthy fabric; subangular, dispersed,
B22	0.45 - 0.6	3 m	Grey (10YR6/1-Moist); Mott 15-30mm, Distinct; Sandy n moist; Firm consistence; 2- fragments; Few, fine (1-2mr	nedium clay; Massiv 10%, fine gravelly, 2	e grade of s	structure	

Projec	ct Name: ct Code: cy Name:	Regional REG Site ID: T368 Observation ID: 1 CSIRO Division of Soils (QLD)
B22	0.6 - 0.9 m	Grey (10YR6/1-Moist); Mottles, 2.5Y68, 10-20%, 15-30mm, Distinct; Mottles, 2.5YR48, 10-20%, 15-30mm, Distinct; Sandy medium clay; Massive grade of structure; Earthy fabric; Moderately moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Few, fine (1-2mm) roots; Diffuse, Irregular change to -
B23	0.9 - 1.2 m	Light grey (10YR7/1-Moist); Mottles, 2.5Y68, 20-50%, 15-30mm, Distinct; Mottles, 20-50%, 15- 30mm, Distinct; Sandy medium clay; Massive grade of structure; Earthy fabric; Moderately moist; Firm consistence; 20-50%, medium gravelly, 6-20mm, subangular, dispersed, Quartz, coarse fragments;
B23	1.2 - 1.5 m	Light grey (10YR7/1-Moist); Mottles, 2.5Y68, 20-50%, 15-30mm, Distinct; Mottles, 20-50%, 15- 30mm, Distinct; Sandy medium clay; Massive grade of structure; Earthy fabric; Moderately moist; Firm consistence; 20-50%, medium gravelly, 6-20mm, subangular, dispersed, Quartz, coarse fragments; Gradual, Irregular change to -
2B	1.5 - 1.8 m	Light grey (10YR7/1-Moist); Mottles, 10YR68, 20-50%, 15-30mm, Distinct; Mottles, 20-50%, 15- 30mm, Distinct; Medium heavy clay; Massive grade of structure; Earthy fabric; Moderately moist; Very firm consistence; 50-90%, medium gravelly, 6-20mm, subangular, dispersed, Quartz, coarse fragments;
2B	1.8 - 2 m	Light grey (10YR7/1-Moist); Mottles, 10YR68, 20-50%, 15-30mm, Distinct; Mottles, 20-50%, 15- 30mm, Distinct; Medium heavy clay; Massive grade of structure; Earthy fabric; Moderately moist; Very firm consistence; 50-90%, medium gravelly, 6-20mm, subangular, dispersed, Quartz, coarse fragments;

# Morphological Notes

Observation Notes THE DENSE 15-20CM LAYER AT BASE HAS A BLOCKY STRUCTURE WITH COARSE SANDBETWEEN UNITS:

### Site Notes

Project Name:	Regional			
Project Code:	REG	Site ID:	T368	Observation ID:
Agency Name:	CSIRO Division	of Soils (C	QLD)	

## Laboratory Test Results:

Depth	рН	1:5 EC Ex Ca	changeable Mg	e Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	wg	n	Cmol (				%
0 - 0.1	5A	0.033A <0.02H	0.14	0.04	<0.02	1.28F	1.6A 3.5C	1.5F	
0.1 - 0.17	5.2A	0.02A 0.02H	0.17	0.08	0.02	1.26F	1.6A 2.6C	1.6F	1.25 0.77
0.17 - 0.2	5.5A	0.02A							
0.2 - 0.28	5.3A	0.02A <0.02H	0.18	0.06	<0.02	1.09F	1.8A 2.1C	1.4F	
0.28 - 0.3	5.8A	0.01A							
0.3 - 0.45	6A	0.007A <0.02H	0.31	0.11	<0.02	1.02F	1.7A 2.5C	1.5F	
0.45 - 0.6	6A	0.008A							
0.6 - 0.9	6A	0.008A <0.02H	0.37	0.12	<0.02	0.95F	2A 2C	1.5F	
0.9 - 1.2	6.1A	0.007A							
1.2 - 1.5	5.9A	0.007A <0.02H	0.37	0.13	0.03	1.3F	2.6A 2.6C	1.9F	1.15
1.5 - 1.8 1.8 - 2	5.8A 5.7A	0.009A 0.008A					3C		

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Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Densitv	Pa GV	rticle CS	Size FS	Analysis Silt	s Clay
m	%	%	mg/kg	%	%	к %	Mg/m3	94	03	%	Sin	Clay
0 - 0.1 0.1 - 0.17		1.22C 0.76C	4B	0.005A	0.06A 0.05A	2.98A		1 7	65A 52A	15 21	11 13	10 14
0.17 - 0.2		0.700			0.03A			8	47A	23	15	16
0.2 - 0.28		0.33C	3B	0.002A	0.02A	3.66A		7	47A	22		16
0.28 - 0.3 0.3 - 0.45		0.14C	2B	0.002A		3.62A		10 9	41A 40A	25 24	15 13	19 22
0.45 - 0.6		0.140	20	0.002/1		0.02/(		10	43A	23	15	20
0.6 - 0.9								11	47A	21	12	20
0.9 - 1.2 1.2 - 1.5		0.05C	2B	0.003A		2.82A		22 46	60A 48A	14 18	6 11	21 23
1.2 - 1.3		0.050	20	0.003A		2.02A		36	40A 44A	13	11	23 31
1.8 - 2				0.003A		2.32A		16	41A	15	7	38

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

0 - 0.1 0.1 - 0.17 0.17 - 0.2 0.2 - 0.28 0.28 - 0.3 0.3 - 0.45 0.45 - 0.6 0.45 - 0.0 0.6 - 0.9 0.9 - 1.2 1.2 - 1.5 1.5 - 1.8

Project Name: Regional Project Code: REG Site ID: T368 Agency Name: CSIRO Division of Soils (QLD) 1.8 - 2

Observation ID: 1

Project Name:	Regional		
Project Code:	REG	Site ID:	T368
Agency Name:	CSIRO Divisio	on of Soils (C	QLD)

Observation ID: 1

#### Laboratory Analyses Completed for this profile

10A1	Total sulfur - X-ray fluorescence
12_HF_CU	Total element - Cu(mg/kg) - HF/HClO4 Digest
12_HF_FE	Total element - Fe(%) - HF/HClO4 Digest
12_HF_MN	Total element - Mn(mg/kg) - HF/HCIO4 Digest
12_HF_ZN	Total element - Zn(mg/kg) - HF/HClO4 Digest
13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
15A2_CEC	Exchangeable bases- 1M ammonium chloride at $pH$ 7.0, pretreatment for soluble salts
15D1_CEC	CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
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
15J1	Effective CEC
17A1	Total potassium - X-ray fluorescence
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
6B3	Total organic carbon - high frequency induction furnace, infrared
7A2	Total nitrogen - semimicro Kjeldahl, automated colour
9A1	Total phosphorus - X-ray fluorescence
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)
9H1	Phosphate retention
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
P10_GRAV	Gravel (%)