Project	t Name: t Code: y Name:	Regional REG Site ID: CSIRO Division of Soils (Q		bservation ID:	1
Desc. B Date De Map Re Northin Easting	esc.: 2 f.: 5 g/Long.: 7 /Lat.: 5	M.G. Cannon 23/11/83 Sheet No. : 8061 1:100000 145.970833333333 -18.24583333333333	Locality: Elevation: Rainfall: Runoff: Drainage:	30 metres 2250 Very slow Moderately well	drained
<u>Geoloc</u> Exposu Geol. R	reType:	Undisturbed soil core QA	Conf. Sub. is Pare Substrate Materia		ata nsolidated material (unidentified)
Morph. Elem. T Slope:	pe Class: Type: ype:	Level plain <9m <1% Flat Plain 0 %	Pattern Type: Relief: Slope Category: Aspect:	Alluvial plain 5 metres Level No Data	
Surfac	e Soil Cor	<u>ndition (dry):</u>			
Erosio	<u>n:</u>				
Soil Cl	assificatio	on			
Australi	ian Soil Cla	ssification:	Марр	ing Unit:	N/A
Mesotro	phic Dermo	solic Redoxic Hydrosol		pal Profile Form:	
	onfidence:		Great	Soil Group:	No suitable group
		/tical data are available.	- L		
		No effective disturbance. Natur		On a sin a in sludes	lass susta en dis duis s
<u>Vegeta</u>	tion:	Low Strata - Tussock grass, 0.		1	1 ,
Surfac	. Cooree	Tall Strata - Tree, 20.01-35m, I		includes - None R	ecorded
-		Fragments: No surface coarse	fragments		
A1	Morphold 0 - 0.1 m	Very dark greyish brown (1 Mottles, 0-0% ; Silty mediu	m clay; Moderate gra	de of structure, 2-	
		Smooth-ped fabric; Modera	itely moist; very wea	k consistence; ivia	ny, fine (1-2mm) roots;
A1	0.1 - 0.12	Mottles, 0-0% ; Silty mediu	m clay; Moderate gra	de of structure, 2-)YR6/2-Dry); Mottles, 0-0% ; 5 mm, Subangular blocky; ny, fine (1-2mm) roots; Clear,
B21	0.12 - 0.2		n clay; Moderate gra	de of structure, 5-	5mm, Distinct; Mottles, 20-50% 10mm, Subangular blocky; ne (1-2mm) roots;
B21	0.2 - 0.25		n clay; Moderate gra	de of structure, 5-	5mm, Distinct; Mottles, 20-50% 10mm, Subangular blocky; ne (1-2mm) roots; Clear,
B22	0.25 - 0.3	5 5 7 (edium clay; Moderate	e grade of structure	5-15mm, Distinct; Mottles, 10- e, 5-10 mm, Subangular blocky; ne (1-2mm) roots;
B22	0.3 - 0.5 m		edium clay; Moderate	e grade of structure	5-15mm, Distinct; Mottles, 10- e, 5-10mm, Subangular blocky; ne (1-2mm) roots; Diffuse,
B23/2b	0.5 - 0.6 m	Distinct; Mottles, 10-20% , 10 mm, Subangular blocky;	5-15mm, Distinct; Me ; Smooth-ped fabric;	edium heavy clay; Moderately moist;	es, 10YR68, 10-20% , 5-15mm, Moderate grade of structure, 5- Firm consistence; Common ; Common, fine (1-2mm) roots;

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B23/2b 0.6 - 0.9 m	Light brownish grey (10YR6/2-Moist); White (10YR8/1-Dry); Mottles, 10YR68, 10-20%, 5-15mm, Distinct; Mottles, 10-20%, 5-15mm, Distinct; Medium heavy clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; Common (10 - 20%), Manganiferous, Medium (2 -6 mm), Soft segregations; Common, fine (1-2mm) roots; Diffuse, Wavy change to -
B24/2b 0.9 - 1.2 m	Light brownish grey (10YR6/2-Moist); Mottles, 10YR68, 10-20%, 0-5mm, Distinct; Mottles, 10-20%, 0-5mm, Distinct; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Soft segregations; Common, fine (1-2mm) roots; Diffuse, Wavy change to -
B25/2b 1.2 - 1.5 m	Light brownish grey (10YR6/2-Moist); Mottles, 10YR68, 20-50%, 15-30mm, Prominent; Mottles, 20-50%, 15-30mm, Prominent; Heavy clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; Common (10 - 20 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Few, fine (1-2mm) roots;
B25/2b 1.5 - 1.8 m	Light brownish grey (10YR6/2-Moist); Mottles, 10YR68, 20-50%, 15-30mm, Prominent; Mottles, 20-50%, 15-30mm, Prominent; Heavy clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; Common (10 - 20 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Few, fine (1-2mm) roots;
B25/2b 1.8 - 2 m	Light brownish grey (10YR6/2-Moist); Mottles, 10YR68, 20-50%, 15-30mm, Prominent; Mottles, 20-50%, 15-30mm, Prominent; Heavy clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; Common (10 - 20 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Few, fine (1-2mm) roots;
Morphological Note	es

Observation Notes VERTICAL MOTTLING IN 12-20CM DEPTH:MN DOMINATE IN Y MOTTLE: Site Notes

Project Name:	Regional				
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Agency Name:	CSIRO Division	of Soils (C	LD)		

Laboratory Test Results:

Depth	рН	1:5 EC Ex Ca	changeable Cations Mg K	Exchangeable	CEC	ECEC	ESP
m		dS/m	Mg K	Na Acidity Cmol (+)/kg			%
0 - 0.1	5.9A	0.045A 3.43H	1.8 0.28	0.24 0.68F	6.9A 13.5C	6.4F	3.48 1.78
0.1 - 0.12 0.12 - 0.2	5.7A 5.7A	0.036A 0.03A 1.38H	1.46 0.07	0.25 1.23F	5.3A 10.3C	4.4F	4.72 2.43
0.2 - 0.25 0.25 - 0.3 0.3 - 0.5	5.8A 5.8A 6A	0.031A 0.029A 0.021A 0.69H	1.4 0.1	0.31 1.17F	4.1A	3.5F	7.56
0.5 - 0.6	6.2A	0.018A			7.4C		4.19
0.6 - 0.9	6.3A	0.018A 0.68H	1.67 0.07	0.45 1.23F	4.5A 9.1C	4.4F	10.00 4.95
0.9 - 1.2	6.4A	0.019A 0.67H	2.19 0.08	0.26 0.89F	4.8A 4.4C	4.1F	5.42 5.91
1.2 - 1.5	6.1A	0.033A 0.7H	2.11 0.07	0.76 1.49F	5.8A 6.5C	5.1F	13.10 11.69
1.5 - 1.8 1.8 - 2	5.8A 5.6A	0.051A 0.072A		1.26F	5.4C		

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Densitv	Pa GV	article CS	Size FS	Analysis Silt	s Clay
m	%	%	г mg/kg	F %	%	к %	Mg/m3	GV	63	гз %	Siit	Clay
0 - 0.1 0.1 - 0.12		2.71C	13B	0.02A	0.19A	2.2A		0 2	4A	24	42	30
0.12 - 0.2		1.06C	4B	0.011A	0.08A	2.04A		0	2A 2A	22 23	43	33 34
0.2 - 0.25 0.25 - 0.3								0	2A	23	40	35
0.3 - 0.5 0.5 - 0.6		0.39C						2 2	3A 4A	25 24		37 38
0.6 - 0.9 0.9 - 1.2		0.31C		0.008A		1.26A		2 3	3A 7A	23 24	33 32	41 37
1.2 - 1.5		0.1C		0.003A		1.58A		5	10A	23	31	35
1.5 - 1.8 1.8 - 2								1 0	7A 6A	33 39	30 26	31 30

Depth	COLE		Grav	/imetric/Vo	olumetric W	ater Conf	ents		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 0.1 - 0.12 0.2 - 0.25 0.25 - 0.3 0.3 - 0.5 0.5 - 0.60.5 - 0.0 0.6 - 0.9 0.9 - 1.2 1.2 - 1.5 1.5 - 1.8

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Project Name:	Regional		
Project Code:	REG	Site ID:	T377
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/HCIO4 Digest
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
5A2	Chloride - 1:5 soil/water extract, automated colour
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 (%)