Project Name:	Regional			
Project Code:	REG	Site ID:	T228	
Agency Name:	CSIRO Div	ision of Soils (C	(LD)	

Site Information

Desc. By: Date Desc.: Map Ref.: Northing/Long.: Easting/Lat.: Geology	R.J. Coventry 16/11/76 Sheet No. : 7956 1:100000 145.19444444444 -20.7277777777778	Locality: Elevation: Rainfall: Runoff: Drainage:	18 Km E. of Torrer No Data 600 No Data No Data	ns Ck.
ExposureType: Geol. Ref.:	Soil pit No Data	Conf. Sub. is Pare Substrate Materia		
Land Form Rel/Slope Class: Morph. Type: Elem. Type: Slope:	No Data No Data No Data 0 %	Pattern Type: Relief: Slope Category: Aspect:	No Data No Data No Data No Data	
Surface Soil C	ondition (dry): N/A			
Erosion: Soil Classifica	tion			
Australian Soil (Bleached-Sodic M ASC Confidenc All necessary an <u>Site Disturban</u> Vegetation: Surface Coars	Classification: Magnesic Yellow Kandosol e: alytical data are available. <u>ce:</u> No effective disturbance other Low Strata - Tussock grass, 0. Tall Strata - Tree, 3.01-6m, Ve e Fragments: No surface coarse	Princi Great than grazing by hoofe .51-1m, Sparse. *Spe ery sparse. *Species i	cies includes - None	
A1 0-0.1 n	n Very dark greyish brown (1			
	Distinct; , 0-2% , 0-5mm, D consistence; Common, fine			ade of structure; Dry; Strong
A3 0.1 - 0.2		Distinct; Fine sandy cla	ay loam; Massive gra	7.5YR58, 0-2% , 0-5mm, ade of structure; Dry; Strong
B1 0.2 - 0.3	m Brownish yellow (10YR6/6- 10% , 0-5mm, Distinct; Find consistence; Common, find	e sandy clay loam; M		2-10% , 0-5mm, Distinct; , 2- cture; Dry; Strong
B1 0.3 - 0.4	m Brownish yellow (10YR6/6- 10% , 0-5mm, Distinct; Find consistence; Common, find	e sandy clay loam (H	eavy); Massive grade	2-10% , 0-5mm, Distinct; , 2- e of structure; Dry; Strong
B2 0.4 - 0.6	m Brownish yellow (10YR6/6-	-Moist); Very pale bro	wn (10YR7/4-Dry); ,	7.5YR58, 20-50% , 5-15mm,

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- B2 15mm. Faint; , 20-50% , 5-15mm, Faint; Sandy light clay; Massive grade of structure; Dry; Strong consistence; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Common, fine (1-2mm) roots; Clear change to -
- Yellowish brown (10YR5/4-Moist); , 2.5YR36, 20-50% , 5-15mm, Distinct; , 20-50% , 5-15mm, BC 0.6 - 0.7 m Distinct; Sandy medium clay; Massive grade of structure; Dry; Strong consistence; Very many (50 - 100 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Common, fine (1-2mm) roots; Clear change to -
- C1 0.7 - 0.9 m Dark red (2.5YR3/6-Moist); , 7.5YR58, 20-50% , 15-30mm, Prominent; , 5Y71, 20-50% , 15-30mm, Prominent; Sandy medium clay; Massive grade of structure; Dry; Very strong consistence; 2-10%, coarse gravelly, 20-60mm, rounded, Quartz, coarse fragments; Very many (50 - 100 %), Ferruginous, Coarse (6 - 20 mm), Nodules;
- C1 Dark red (2.5YR3/6-Moist); , 7.5YR58, 20-50% , 15-30mm, Prominent; , 5Y71, 20-50% , 15-0.9 - 1.2 m 30mm, Prominent; Sandy medium clay; Massive grade of structure; Dry; Very strong consistence; 2-10%, coarse gravelly, 20-60mm, rounded, Quartz, coarse fragments; Very many (50 - 100 %), Ferruginous, Coarse (6 - 20 mm), Nodules;

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C1 1.2 - 1.5	 Dark red (2.5YR3/6-Moist); , 7.5YR58, 20-50% , 15-30mm, Prominent; , 5Y71, 20-50% , 15-30mm, Prominent; Sandy medium clay; Massive grade of structure; Dry; Very strong consistence; 2-10%, coarse gravelly, 20-60mm, rounded, Quartz, coarse fragments; Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Nodules;
C1 1.5 - 1.8	 Dark red (2.5YR3/6-Moist); , 7.5YR58, 20-50% , 15-30mm, Prominent; , 5Y71, 20-50% , 15-30mm, Prominent; Sandy medium clay; Massive grade of structure; Dry; Very strong consistence; 2-10%, coarse gravelly, 20-60mm, rounded, Quartz, coarse fragments; Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Nodules;
C1 1.8 - 2.1	 Dark red (2.5YR3/6-Moist); , 7.5YR58, 20-50% , 15-30mm, Prominent; , 5Y71, 20-50% , 15-30mm, Prominent; Sandy medium clay; Massive grade of structure; Dry; Very strong consistence; 2-10%, coarse gravelly, 20-60mm, rounded, Quartz, coarse fragments; Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Nodules;
C1 2.1 - 2.4	m Dark red (2.5YR3/6-Moist); , 7.5YR58, 20-50% , 15-30mm, Prominent; , 5Y71, 20-50% , 15- 30mm, Prominent; Sandy medium clay; Massive grade of structure; Dry; Very strong consistence; 2-10%, coarse gravelly, 20-60mm, rounded, Quartz, coarse fragments; Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Nodules;
C1 2.4 - 2.5	 Dark red (2.5YR3/6-Moist); , 7.5YR58, 20-50% , 15-30mm, Prominent; , 5Y71, 20-50% , 15-30mm, Prominent; Sandy medium clay; Massive grade of structure; Dry; Very strong consistence; 2-10%, coarse gravelly, 20-60mm, rounded, Quartz, coarse fragments; Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Diffuse change to -
C2 2.5 - 2.7	⁷ m Light grey (10YR7/1-Moist); , 7.5YR56, 20-50% , 15-30mm, Prominent; , 2.5YR36, 20-50% , 15- 30mm, Prominent; Sandy light clay; Massive grade of structure; Dry; Very strong consistence; 20-50%, cobbly, 60-200mm, rounded, Quartz, coarse fragments;
C2 2.7 - 3 n	h Light grey (10YR7/1-Moist); , 7.5YR56, 20-50% , 15-30mm, Prominent; , 2.5YR36, 20-50% , 15- 30mm, Prominent; Sandy light clay; Massive grade of structure; Dry; Very strong consistence; 20-50%, cobbly, 60-200mm, rounded, Quartz, coarse fragments;
C2 3 - 3.3 n	h Light grey (10YR7/1-Moist); , 7.5YR56, 20-50% , 15-30mm, Prominent; , 2.5YR36, 20-50% , 15- 30mm, Prominent; Sandy medium clay; Massive grade of structure; Dry; Very strong consistence; 2-10%, coarse gravelly, 20-60mm, rounded, Quartz, coarse fragments;
C2 3.3 - 3.4	6 m Light grey (10YR7/1-Moist); , 7.5YR56, 20-50% , 15-30mm, Prominent; , 2.5YR36, 20-50% , 15- 30mm, Prominent; Sandy medium clay; Massive grade of structure; Dry; Very strong consistence; 0-2%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments;
Morphological	
Observation N	otes

Site Notes

Project Name:	Regional			
Project Code:	REG	Site ID:	T228	
Agency Name:	CSIRO Divis	ion of Soils (C	QLD)	

Laboratory Test Results:

Depth	рН		hangeable: Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Mg	ĸ	Cmol (%
0 - 0.1	5.5A	0.024A 0.41H	0.89	0.06	0.16	0.25F	2.06A	1.8F	7.77
0.1 - 0.2	5.5A	0.023A	4 00		~ ~	o 15	0 45 4	05	40.04
0.2 - 0.3	5.5A	0.021A <0.02H	1.28	0.04	0.3	0.4F	2.45A	2F	12.24
0.3 - 0.4	5.3A	0.032A	4 50		~ ~	0.005	0.044	0.05	40.00
0.4 - 0.6	5.9A	0.021A <0.02H	1.58	0.04	0.3	0.36F	2.81A	2.3F	10.68
0.6 - 0.7	6.1A	0.019A							
0.7 - 0.9	5.7A	0.018A <0.02H	2.12	0.04	0.4	0.19F	3.38A	2.8F	11.83
0.9 - 1.2	5.9A	0.021A							
1.2 - 1.5	6A	0.024A							
1.5 - 1.8	6A	0.029A							
1.8 - 2.1	5.8A	0.021A							
2.1 - 2.4	5.9A	0.028A							
2.4 - 2.5	6A	0.026A							
2.5 - 2.7	5.6A	0.029A							
2.7 - 3	5.2A	0.028A							
3 - 3.3	5.2A	0.035A							
3.3 - 3.46	5.8A	0.023A							

Observation ID: 1

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Pa	rticle	Size	Analysi	s
		С	Р	Р	N	ĸ	Density	GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1		0.49D	8B	0.007A	0.041A	0.04A		2	33A	40	8	19
0.1 - 0.2		0.34D	6B	0.00171	0.028A			2	30A	39		23
0.2 - 0.3		0.2D	6B	0.005A	0.014A			1	29A	37	-	27
0.3 - 0.4		0.20	02	0.000/1	0.01 //	0.00/1		4	30A	35		29
0.4 - 0.6								9	31A	31		32
0.6 - 0.7								61	34A	29	-	30
0.7 - 0.9				0.009A		0.06A		74	34A	27	-	33
0.9 - 1.2				0.00071		010071		58	51A	22	-	21
1.2 - 1.5								50	34A	26	-	22
1.5 - 1.8								51	28A	25	-	39
1.8 - 2.1								49	29A	23	-	41
2.1 - 2.4								45	33A	19		42
2.4 - 2.5								49	36A	19	-	39
2.5 - 2.7								47	35A	16		43
2.7 - 3								23	42A	14		39
3 - 3.3								7	45A	16	6	33
3.3 - 3.46								3	43A	14	-	38
Depth	COLE			metric/Volu					K sa	at	K unsa	t
m		Sat.	0.05 Bar		0.5 Bar 1 m3/m3	Bar 5	5 Bar 15	5 Bar	mm/	'n	mm/h	

0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.4 0.4 - 0.6 0.6 - 0.7 0.7 - 0.9

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0.9 - 1.2			
1.2 - 1.5			
15-18			

- $\begin{array}{c} 1.2 & 1.8 \\ 1.5 & -1.8 \\ 1.8 & -2.1 \\ 2.1 & -2.4 \\ 2.4 & -2.5 \\ 2.5 & -2.7 \\ 2.7 & -3 \\ 3 & -3.3 \\ 3.3 & -3.46 \end{array}$

Observation ID: 1

Project Name:RegionalProject Code:REGSite ID:T228Agency Name:CSIRO Division of Soils (QLD)

Observation ID: 1

Laboratory Analyses Completed for this profile

10A1 13C1_FE 15A2_CEC 15E1_CA 15E1_K 15E1_MG 15E1_NA	Total sulfur - X-ray fluorescence Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon Exchangeable bases - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts 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
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
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)
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 (%)