Projec	t Name: t Code: y Name:	Regional REG Site ID: CSIRO Division of Soils (bservation ID:	1
<u>Site In</u> Desc. E	formation Bv:	<u>n</u> G. Smith	Locality:	2.2KM south of b	branch of Dillion Creek near
Date De Map Re	esc.: ef.: ig/Long.:	25/08/70 Sheet No. : 8057 1:100000 145.816666666667 -20.1	Elevation: Rainfall: Runoff: Drainage:	Tandanus homes No Data 610 No Data Poorly drained	
<u>Geolog</u> Exposu Geol. R	ireType:	Undisturbed soil core Tf	Conf. Sub. is Pare Substrate Materia	I: Undist	ta urbed soil core, 1.8 m Sandstone
<u>Land F</u> Rel/Slo	Form pe Class:	Gently undulating plains <9m 1-3%	Pattern Type:	Plain	
Morph. Elem. T Slope:		Ridge Plain <1 %	Relief: Slope Category: Aspect:	6 metres Very gently slope 135 degrees	ed
Surfac	e Soil Co	ndition (dry): Hardsetting	-	-	
<u>Erosio</u>					
<u>Soil Cl</u>	assificat	ion			
		lassification:		ng Unit:	N/A Gn2.24
	onfidence	nic Yellow Kandosol :		pal Profile Form: Soil Group:	Yellow earth
		lytical data are available.			
		e: No effective disturbance othe	er than grazing by hoofe	d animals	
Vegeta	ation:	Mid Strata - Tree, 1.01-3m, \	/on/charge *Shocies in	aludas Acacia sr	
		Tall Strata - Tree, 3.01-6m, S	, , ,		
Surfac	e Coarse	Fragments: No surface coars			
Profile	Morpho	logy	-		
A11	0 - 0.1 m				y sand; Massive grade of dual change to -
A12	0.1 - 0.2	m Black (10YR2/1-Moist); C consistence; Few, fine (1	Grey (10YR5/1-Dry); ; L -2mm) roots; Clear cha	bamy sand; Massiv nge to -	ve grade of structure; Dry; Firm
A21	0.2 - 0.3	m Dark greyish brown (10Y grade of structure; Dry; F			2-Dry); ; Sand (Heavy); Massive Gradual change to -
A22	0.3 - 0.4	m Yellowish brown (10YR5/ structure; Dry; Very firm o	/4-Moist); Pale brown (′ consistence; Few, fine (0YR6/3-Dry); ; Loa 1-2mm) roots; Cle	amy sand; Massive grade of ar change to -
B11	0.4 - 0.5	m Yellowish brown (10YR5/ firm consistence; Gradua		(Heavy); Massive	grade of structure; Dry; Very
B12	0.5 - 0.6	m Brownish yellow (10YR6/ Dry; Very firm consistenc		oam; Massive grad	le of structure; Earthy fabric;
B12	0.6 - 0.7	m Brownish yellow (10YR6/ fabric; Dry; Very firm con			sive grade of structure; Earthy
B12	0.7 - 0.8	m Brownish yellow (10YR6/ fabric; Dry; Very firm con			sive grade of structure; Earthy
B21	0.8 - 0.9	m Brownish yellow (10YR6/ fabric; Dry; Very firm con			rade of structure; Earthy
B21	0.9 - 1 m	Brownish yellow (10YR6/ clay; Massive grade of st			6 , 0-5mm; Sandy medium al change to -
B22	1 - 1.1 m				6 , 0-5mm; Sandy medium istence; Gradual change to -

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- B22 1.1 1.2 m Yellowish brown (10YR5/6-Moist); ; Sandy medium clay; Massive grade of structure; Dry; Very firm consistence; Very few (0 2 %), Ferruginous, Coarse (6 20 mm), Concretions; Gradual change to -
 - 1.2 1.3 m Brownish yellow (10YR6/6-Moist); , 10YR76, 0-2% , 0-5mm; , 0-2% , 0-5mm; Sandy medium clay; Massive grade of structure; Very firm consistence; Very few (0 2 %), Ferruginous, Coarse (6 20 mm), Concretions; Gradual change to -
 - 1.3 1.4 m Brownish yellow (10YR6/5-Moist); , 10YR76, 0-2% , 0-5mm; , 10YR81, 0-2% , 0-5mm; Sandy medium clay; Massive grade of structure; Very firm consistence; Very few (0 2 %), Ferruginous, Coarse (6 20 mm), Concretions; Gradual change to -
 - 1.4 1.5 m Brownish yellow (10YR6/5-Moist); , 10YR76, 0-2% , 0-5mm; , 10YR81, 0-2% , 0-5mm; Sandy medium clay; Massive grade of structure; Very firm consistence; Very few (0 2 %), Ferruginous, Coarse (6 20 mm), Concretions; Gradual change to -
 - 1.5 1.58 m Brownish yellow (10YR6/6-Moist); , 10YR76; Sandy medium clay; Massive grade of structure; Very firm consistence; Common (10 20 %), Ferruginous, Very coarse (20 60 mm), Concretions; Sharp change to -
- C 1.58 1.86 m Light grey (2.5Y7/2-Moist); ; Sandy medium clay; Massive grade of structure; Dry; Very firm consistence; Many (20 50 %), Ferruginous, Coarse (6 20 mm), Concretions;

Morphological Notes

Observation Notes

158-186CM SOFT WEATHERED SST WITH SOME PALE BROWN SAND (PM?):

Site Notes

BALFE`S CK

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Laboratory Test Results:

Depth	рН	1:5 EC		changeabl		N	Exchangeable	CEC	ECEC	ESP
m		dS/m	a	Mg	К	Na Cmol	Acidity (+)/kg			%
0 - 0.1	6.2A	0.026A	2.4B	0.59	0.16	0.06	2.9F		6.1F	
0.1 - 0.2	6.4A	0.02A	2.2B	0.56	0.13	0.04	2.8F		5.7F	
0.2 - 0.3	6.6A	0.017A	1.4B	0.34	0.09	0.02	2.8F		4.7F	
0.3 - 0.4	6.7A	0.014A	0.94B	0.3	0.13	0.05	2.4F		3.8F	
0.4 - 0.5	6.6A	0.017A	0.88B	0.34	0.2	0.03	2F		3.5F	
0.5 - 0.6	6.5A	0.017A								
0.6 - 0.7	6.4A	0.017A	1B	0.5	0.27	0.04	2.4F		4.2F	
0.7 - 0.8	6.3A	0.02A	1B	0.61	0.27	0.06				
0.8 - 0.9	5.8A	0.023A								
0.9 - 1	5.9A	0.029A								
1 - 1.1	5.9A	0.029A	1B	0.45	0.18	0.04	2.5F	2.48A	4.2F	1.61
1.1 - 1.2	6.3A	0.023A								
1.2 - 1.3	6.2A	0.02A	0.94B	1.1	0.14	0.11				
1.3 - 1.4	6.3A	0.02A								
1.4 - 1.5	6.3A	0.02A	0.78B	1.3	0.08	0.13	2.5F		4.8F	
1.5 - 1.58	6.5A	0.02A	0.74B	1.3	0.07	0.15	2.5F		4.8F	
1.58 - 1.86	6.8A	0.02A								

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Pa	rticle	Size	Analysi	s
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	CS	FS %	Silt	Clay
							-					
0 - 0.1		0.67D	4.2B	0.005A	0.04A	0.16A		5	60A	30	4	6
0.1 - 0.2		0.47D	2.6B	0.005A	0.02A	0.17A		4	58A	31	4	7
0.2 - 0.3		0.23D	2.6B	0.004A		0.17A		4	57A	32	4	7
0.3 - 0.4								4	62A	26	4	8
0.4 - 0.5				0.005A		0.19A		6	52A	30	4	14
0.5 - 0.6												
0.6 - 0.7								6	50A	26	4	20
0.7 - 0.8			<2B	0.005A		0.2A						
0.8 - 0.9												
0.9 - 1											_	
1 - 1.1								6	48A	21	3	28
1.1 - 1.2												
1.2 - 1.3												
1.3 - 1.4				0.0054				10				07
1.4 - 1.5				0.005A		0.16A		12	53A			27
1.5 - 1.58								24	62A	14	3	21
1.58 - 1.86												

Depth	COLE		Grav	/imetric/Vo	olumetric W	ater Cont	ents		K sat	K unsat
m		Sat.	0.05 Bar		0.5 Bar /g - m3/m3	1 Bar 3	5 Bar	15 Bar	mm/h	mm/h

0 - 0.1
0.1 - 0.2
0.2 - 0.3
0.3 - 0.4
0.4 - 0.5
0.5 - 0.6
0.6 - 0.7

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0.7 - 0.8			
0.8 - 0.9			
001			

0.8 - 0.9 0.9 - 1 1 - 1.1 1.1 - 1.2 1.2 - 1.3 1.3 - 1.4 1.4 - 1.5 1.5 - 1.58 1.58 - 1.86

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Observation ID: 1

Laboratory Analyses Completed for this profile

10A1 12_HF_CU 12_HF_MN 12_HF_ZN 13C1_AL 15A2_CA	Total sulfur - X-ray fluorescence Total element - Cu(mg/kg) - HF/HClO4 Digest Total element - Mn(mg/kg) - HF/HClO4 Digest Total element - Zn(mg/kg) - HF/HClO4 Digest Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_CEC	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_K 15A2_MG	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_NO	Exchangeable bases 1M ammonium chloride at pH 7.0, 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)
MIN_EC	Exchange Capacity - Minerology
P10_CF_C	Clay (%) - Coventry and Fett pipette method
P10_CF_CS P10_CF_FS	Coarse sand (%) - Coventry and Fett pipette method Fine sand (%) - Coventry and Fett pipette method
P10_CF_F3	Silt (%) - Coventry and Fett pipette method
P10_CI_2 P10_GRAV	Gravel (%)
XRD C II	Illite - X-Ray Diffraction
XRD C Is	Interstratified clay minerals - X-Ray Diffraction
XRD C K2O	K2O - X-Ray Diffraction or Clay Fraction (air dry)
XRD C Ka	Kaolin - X-Ray Diffraction
XRD C Qz	Quartz - X-Ray Diffraction
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