Projec	t Code: RE	egional EG Site ID: SIRO Division of Soils (Q		Observation ID:	1
Desc. E Date De Map Re	esc.: 14/0 ef.: Shee ng/Long.: 146 g/Lat.: -17.8	Murtha 9/77 et No. : 8062 1:100000 3333333333333	Locality: Elevation: Rainfall: Runoff: Drainage:	1.6KM south of E 140 metres 4000 Very rapid Well drained	Big Maria Creek on highway:
	IreType: Exis	ting vertical exposure B	Conf. Sub. is Pa Substrate Materi	al: Existir deep,l	ta ng vertical exposure, 2.1 m Porous, Metamorphic rock ntified)
Morph. Elem. 1 Slope:	pe Class: Roll Type: Mid- Type: Hills 21 % ce Soil Conditi		Pattern Type: Relief: Slope Category: Aspect:	Hills 60 metres Moderately inclir 270 degrees	ned
Austral Acidic I ASC C All nec <u>Site D</u> Vegeta	isturbance: N ation:		Princ Grea	ping Unit: cipal Profile Form: t Soil Group:	N/A Um4.41 Red podzolic soil
	e Morphology				
A1	0 - 0.1 m		n, Cast; Dry; Weak	consistence; 2-10%	ay loam, fine sandy; Strong , coarse gravelly, 20-60mm, 2mm) roots; Gradual change to
A3	0.1 - 0.2 m	Yellowish red (5YR4/8-Mois grade of structure, 5-10 mn gravelly, 20-60mm, Metamo	n, Subangular block	y; Dry; Very firm cor	nsistence; 2-10%, coarse
B1	0.2 - 0.3 m	Red (2.5YR4/6-Moist); Red structure, 10-20 mm, Subar coarse gravelly, 20-60mm,	ngular blocky; Earth	y fabric; Dry; Very fi	rm consistence; 10-20%,
B2	0.3 - 0.45 m	Red (2.5YR4/6-Moist); ; Lig blocky; Earthy fabric; Dry; \ Metamorphic rock (unidenti	/ery firm consistend	e; 10-20%, coarse g	
B2	0.45 - 0.6 m	Red (2.5YR4/6-Moist); ; Lig blocky; Earthy fabric; Dry; \ Metamorphic rock (unidenti	/ery firm consistend	e; 10-20%, coarse g	gravelly, 20-60mm,
B2	0.6 - 0.9 m	Red (2.5YR4/6-Moist); ; Lig blocky; Earthy fabric; Dry; \ Metamorphic rock (unidenti	/ery firm consistend	e; 10-20%, coarse g	icture, 10-20 mm, Subangular gravelly, 20-60mm,
B2	0.9 - 1.2 m	Red (10R4/6-Moist); ; Light Earthy fabric; Dry; Very firm (unidentified), coarse fragm	n consistence; 20-5		
B3	1.2 - 1.5 m	Red (10R4/7-Moist); ; Clay Subangular blocky; Earthy Metamorphic rock (unidenti	fabric; Dry; Very firr	n consistence; 20-5	
	1.5 - 1.8 m	Red (10R4/7-Moist); ; Clay Subangular blocky; Earthy Metamorphic rock (unidenti	fabric; Very firm cor	nsistence; 50-90%, d	of structure, 10-20 mm, cobbly, 60-200mm,

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1.8 - 2.1 mRed (10R4/7-Moist); ; Clay Ioam, fine sandy (Heavy); Weak grade of structure, 10-20 mm,
Subangular blocky; Earthy fabric; Very firm consistence; 50-90%, cobbly, 60-200mm,
Metamorphic rock (unidentified), coarse fragments;

C 2.1 - 2.25 m

Morphological Notes

Weathered parent material:

:

Observation Notes

WEATHERED PARENT MATERIAL SLOWLY INCREASES DOWN PROFILE: DEEP STRONGLY WEATHERED SAPROLITE:

Site Notes

EL ARISH

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Project Code:	REG	Site ID:	T258
Agency Name:	CSIRO Divisio	on of Soils (C	QLD)

Observation ID: 1

Laboratory Test Results:

Depth	рН	1:5 EC		changeabl			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	К	Na Cmol	Acidity (+)/kg			%
0 - 0.1	4.9A	<0.05A	0.2B	0.34	0.06	0.04	1.9F	2.23A 4.6C	2.5F	1.79 0.87
0.1 - 0.2	4.8A	<0.05A	0.08B	0.15	0.06	0.02	1.6F	3C	1.9F	0.67
0.2 - 0.3	5A	<0.05A	0.08B	0.15	0.06	0.02	1.2F	2C	1.5F	1.00
0.3 - 0.45	5.1A	<0.05A	0.04B	0.15	0.02	0.02	0.78F		1F	
0.45 - 0.6	5A	<0.05A	0.04B	0.11	0.02	0.02	0.96F	1.4C	1.2F	1.43
0.6 - 0.9	5A	<0.05A	0.04B	0.11	0.02	0.02	1F	1.78A	1.2F	1.12
								1.3C		1.54
0.9 - 1.2	5.1A	<0.05A	0.04B	0.11	0.02	0.03	1.33F	1.5C	1.5F	2.00
1.2 - 1.5	5.2A	<0.05A	0.04B	0.07	0.02	0.03	1.15F	1.4C	1.3F	2.14
1.5 - 1.8	5A	<0.05A					1.7F			
1.8 - 2.1	4.9A	<0.05A					1.9F			
2.1 - 2.25	5A	<0.05A					1.4F			

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk				Analysi	
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	CS	FS %	Silt	Clay
0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.45 0.45 - 0.6 0.6 - 0.9 0.9 - 1.2 1.2 - 1.5 1.5 - 1.8 1.8 - 2.1 2.1 - 2.25		1.72D 0.99D 0.53D 0.32D 0.25D 0.18D 0.1D 0.07D	7B 3B 2B 1B	0.019A 0.014A	0.11A 0.05A 0.04A 0.03A	0.31A 0.45A		0 <2 8 4 <2 0 0 0	23A 25A 29A 23A 19A 17A 29A	44 42 41 42 42	10 10 10 11 15 20	21 22 20 24 24 23

Depth	COLE		Grav	/imetric/Vo	olumetric W	ater Conte	ents		K sat	K unsat
m		Sat.	0.05 Bar	0.1 Bar	0.5 Bar /g - m3/m3	1 Bar	5 Bar	15 Bar	mm/h	mm/h
				9/	g 110/110					
0 - 0.1										
0.1 - 0.2										
0.2 - 0.3										
0.3 - 0.45										
0.45 - 0.6										
0.6 - 0.9										
0.9 - 1.2										
1.2 - 1.5										
1.5 - 1.8										
1.8 - 2.1										
2.1 - 2.25										

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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_CA	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	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
15D1_CEC	CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
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	Coarse sand (%) - Coventry and Fett pipette method
P10_CF_FS P10 CF Z	Fine sand (%) - Coventry and Fett pipette method Silt (%) - Coventry and Fett pipette method
P10_CF_2 P10_GRAV	Gravel (%)
XRD C Gt	Geothite - X-Ray Diffraction
XRD_C_Hm	Hematite - X-Ray Diffraction
XRD_C_II	Illite - X-Ray Diffraction
XRD_C_K2O	K2O - X-Ray Diffraction or Clay Fraction (air dry)
XRD_C_Ka	Kaolin - X-Ray Diffraction
/ <u></u>	