	ct Name: ct Code: cy Name:	REO CSII	ional 3 RO Division	Site ID: of Soils (Q	T105 (LD)	Observat	ion ID:	1	
Site I	nformatio	n							
Desc.	By:	G.G. N	lurtha		Locality:			ck River on Hervey's Rai of road and before fence	
Date D		14/10/			Elevation:	45 me	tres		
Map R	lef.: ing/Long.:		No. : 8259 1 333333333333	1:100000	Rainfall: Runoff:	1020 Slow			
	ng/Lat.:		666666666666666666666666666666666666666		Drainage:	No Data	a		
Geolo	•		urbed soil core	a	Conf. Sub. is P		No Dat	ta	
Geol.		QA		-	Substrate Mate		Undist	urbed soil core, Unconso al (unidentified)	lidate
Land	Form								
		Level	plain <9m <1%	6	Pattern Type:	Alluvial	plain		
	n. Type:	Flat			Relief:	0 metre	S		
Elem.		Plain			Slope Category		_		
Slope:		0 %	n (dn.)	rdoottine	Aspect:	No Dat	a		
	<u>ce Soil Co</u>	multio	<u>n (ury):</u> Ha	rdsetting					
Erosi									
	Classificati								
	alian Soil Cl					pping Unit:	_	N/A	
	Eutrophic R		nosol			ncipal Profi		GN3.14	
			plata but raca	anabla aanfid		eat Soil Gro	up:	Red podzolic soil	
			plete but reas		lence. than grazing by ho	ofod onimal	_		
		e. NO	enective distu	ibance other	man orazino ov ne	oleu animai	S		
		1	. Otani		0 0 ,			less a second ad	
vege	tation:			0	.51-1m, Mid-dense	e. *Species ir	ncludes - N		
				0	.51-1m, Mid-dense	e. *Species ir	ncludes - N	None recorded ptus polycarpa, Eucalypt	us al
ucalyp		Tal	l Strata - Tree	0	.51-1m, Mid-dense	e. *Species ir	ncludes - N		us al
ucalyp	otus	Tal dre	l Strata - Tree panophylla	, 12.01-20m,	51-1m, Mid-dense Very sparse. *Spe	e. *Species ir	ncludes - N		us al
ucalyp Surfa	otus <b>ce Coarse</b>	Tal dre <b>Fragn</b>	l Strata - Tree	, 12.01-20m,	51-1m, Mid-dense Very sparse. *Spe	e. *Species ir	ncludes - N		us al
ucalyp <u>Surfa</u> Profil	<sup>otus</sup> ce Coarse e Morphol	Tal dre <b>Fragn</b> l <b>ogy</b>	l Strata - Tree panophylla <b>nents:</b> No su	, 12.01-20m, urface coarse	51-1m, Mid-dense Very sparse. *Spe fragments	e. *Species ir cies include:	ncludes - f s - Eucaly	ptus polycarpa, Eucalypt	
ucalyp Surfa	otus <b>ce Coarse</b>	Tal dre <u>Fragn</u> logy	l Strata - Tree panophylla <b>nents:</b> No su Dark brown (7	, 12.01-20m, urface coarse 7.5YR3/2-Moi	51-1m, Mid-dense Very sparse. *Spe fragments st); Brown (7.5YR-	e. *Species ir cies includes 4/2-Dry); ; Sa	ncludes - 1 s - Eucaly andy loam		of
ucalyp <u>Surfa</u> Profil	<sup>otus</sup> ce Coarse e Morphol	Tal dre <b>Fragn</b> I <b>ogy</b> m	I Strata - Tree panophylla <b>nents:</b> No su Dark brown (7 structure; Mar change to - Brown (7.5YR	, 12.01-20m, urface coarse 7.5YR3/2-Moi ny (>5 per 10 24/2-Moist); B	51-1m, Mid-dense Very sparse. *Spe fragments st); Brown (7.5YR- 0mm2) Fine (1-2m	e. *Species ir cies includes 4/2-Dry); ; Si im) macropo Pry); ; Loam;	ncludes - 1 s - Eucaly andy loam res, Dry; f Massive g	ptus polycarpa, Eucalypt (Heavy); Massive grade Firm consistence; Gradua	e of al
ucalyp <u>Surfa</u> Profil A1	otus <u>ce Coarse</u> <u>e Morphol</u> 0 - 0.1 m	Tal dre <u>e Fragn</u> logy m	I Strata - Tree panophylla <b>nents:</b> No su Dark brown (7 structure; Mar change to - Brown (7.5YR 100mm2) Find Dark reddish	, 12.01-20m, urface coarse 7.5YR3/2-Moi ny (>5 per 10 24/2-Moist); B e (1-2mm) ma brown (5YR3	51-1m, Mid-dense Very sparse. *Spe fragments (st); Brown (7.5YR- 0mm2) Fine (1-2m Brown (7.5YR5/4-D acropores, Dry; Fir /3-Moist); Reddish	e. *Species ir rcies includes 4/2-Dry); ; Sa nm) macropo Pry); ; Loam; m consisten n brown (5YR	andy loam res, Dry; f Massive g ce; Gradu 4/4-Dry);	ptus polycarpa, Eucalypt n (Heavy); Massive grade Firm consistence; Gradua grade of structure; Many ( al change to - ; Clay loam; Moderate gr	of al (>5 p
ucalyp <u>Surfa</u> Profil A1 A2 B1	otus <u>ce Coarse</u> <u>e Morphol</u> 0 - 0.1 m 0.1 - 0.2 0.2 - 0.3	Tal dre <u>Fragn</u> Iogy m m	I Strata - Tree panophylla <b>nents:</b> No su Dark brown (7 structure; Mar change to - Brown (7.5YR 100mm2) Find Dark reddish structure, <2 n fine gravelly, 2	, 12.01-20m, urface coarse 7.5YR3/2-Moi ny (>5 per 10 24/2-Moist); B e (1-2mm) ma brown (5YR3 mm, Angular 2-6mm, angu	51-1m, Mid-dense Very sparse. *Spe fragments st); Brown (7.5YR- 0mm2) Fine (1-2m Grown (7.5YR5/4-D acropores, Dry; Fir /3-Moist); Reddish blocky; Massive g lar, Quartz, coarse	e. *Species ir cices includes 4/2-Dry); ; Sa m) macropo Pry); ; Loam; m consisten brown (5YR rade of struc e fragments;	ncludes - f s - Eucaly andy Ioam res, Dry; f Massive g ce; Gradu 4/4-Dry); ture; Dry;	ptus polycarpa, Eucalypt (Heavy); Massive grade Firm consistence; Gradua grade of structure; Many ( al change to - ; Clay loam; Moderate gr Very firm consistence; 0-	a of al ∕2>5 p rade -2%,
ucalyp <u>Surfa</u> Profil A1 A2	otus <u>ce Coarse</u> <u>e Morphol</u> 0 - 0.1 m 0.1 - 0.2	Tal dre <u>e Fragn</u> logy m m m	I Strata - Tree panophylla <b>nents:</b> No su Dark brown (7 structure; Mar change to - Brown (7.5YR 100mm2) Find Dark reddish   structure, <2 n fine gravelly, 2 Dark reddish   structure, <2 n	, 12.01-20m, urface coarse 7.5YR3/2-Moi ny (>5 per 10 24/2-Moist); B e (1-2mm) ma brown (5YR3 mm, Angular 2-6mm, angu brown (5YR3 mm, Angular	51-1m, Mid-dense Very sparse. *Spe fragments (st); Brown (7.5YR- 0mm2) Fine (1-2m Grown (7.5YR5/4-D acropores, Dry; Fir /3-Moist); Reddish blocky; Massive g lar, Quartz, coarse /3-Moist); Reddish	e. *Species ir rcies includes 4/2-Dry); ; Sa m) macropo rry); ; Loam; m consisten brown (5YR rade of struc e fragments; brown (5YR rade of struc	andy loam res, Dry; f Massive g ce; Gradu 4/4-Dry); ture; Dry; ture; Dry;	ptus polycarpa, Eucalypt (Heavy); Massive grade Firm consistence; Gradua grade of structure; Many ( al change to - ; Clay loam; Moderate gr Very firm consistence; 0 ; Clay loam; Moderate gr	of al 2>5 p 2%, ade
ucalyp <u>Surfa</u> Profil A1 A2 B1	otus <u>ce Coarse</u> <u>e Morphol</u> 0 - 0.1 m 0.1 - 0.2 0.2 - 0.3	Tal dre <u>Fragn</u> Iogy m m m	I Strata - Tree panophylla <b>nents:</b> No su Dark brown (7 structure; Mar change to - Brown (7.5YR 100mm2) Fine Dark reddish I structure, <2 I fine gravelly, 2 Dark reddish I structure, <2 I fine gravelly, 2 Dark reddish I structure, <2 I fine gravelly, 2	, 12.01-20m, urface coarse 7.5YR3/2-Moi ny (>5 per 10 24/2-Moist); B e (1-2mm) ma brown (5YR3 mm, Angular 2-6mm, angu brown (5YR3 mm, Angular 2-6mm, angu YR3/6-Moist);	51-1m, Mid-dense Very sparse. *Spe fragments (5t); Brown (7.5YR- 0mm2) Fine (1-2m (3-Moist); Reddish blocky; Massive g lar, Quartz, coarse /3-Moist); Reddish blocky; Massive g lar, Quartz, coarse	e. *Species ir cicies includes 4/2-Dry); ; Si am) macropo (ry); ; Loam; m consisten brown (5YR rade of struc e fragments; trong grade of	andy loam res, Dry; f Massive g ce; Gradu 4/4-Dry); ture; Dry; Gradual c	ptus polycarpa, Eucalypt (Heavy); Massive grade Firm consistence; Gradua grade of structure; Many ( al change to - ; Clay loam; Moderate gr Very firm consistence; 0 ; Clay loam; Moderate gr	a of al 2>5 p 22%, 2ade 22%,
Surfa Profil A1 A2 B1 B1	otus <u>ce Coarse</u> <u>e Morphol</u> 0 - 0.1 m 0.1 - 0.2 0.2 - 0.3 0.3 - 0.4	Tal dre <u>e Fragn</u> logy m m m m	I Strata - Tree panophylla <b>nents:</b> No su Dark brown (7 structure; Mar change to - Brown (7.5YR 100mm2) Find Dark reddish I structure, <2 i fine gravelly, 2 Dark reddish I structure, <2 i fine gravelly, 2	, 12.01-20m, urface coarse 7.5YR3/2-Moi ny (>5 per 10 24/2-Moist); B e (1-2mm) ma brown (5YR3 mm, Angular 2-6mm, angu brown (5YR3 mm, Angular 2-6mm, angu YR3/6-Moist); abric; Dry; Ve YR3/6-Moist);	51-1m, Mid-dense Very sparse. *Spe fragments (st); Brown (7.5YR- 0mm2) Fine (1-2m frown (7.5YR5/4-D acropores, Dry; Fir /3-Moist); Reddish blocky; Massive g lar, Quartz, coarse /3-Moist); Reddish blocky; Massive g lar, Quartz, coarse (3-Moist); Reddish blocky; Massive g lar, Quartz, coarse (3-Moist); Reddish blocky; Massive g lar, Quartz, coarse	e. *Species ir rcies includes 4/2-Dry); ; Sa m) macropo (ry); ; Loam; m consisten brown (5YR rade of struc e fragments; trong grade of ence; trong grade of	andy loam res, Dry; f Massive g ce; Gradu 4/4-Dry); ture; Dry; Gradual c of structure	ptus polycarpa, Eucalypt (Heavy); Massive grade Firm consistence; Gradua grade of structure; Many ( al change to - ; Clay loam; Moderate gr Very firm consistence; 0 ; Clay loam; Moderate gr Very firm consistence; 0 hange to - e, 10-20 mm, Angular blo	a of al 235 p 230, 230, 230, 230, 200, 200, 200, 200,
Surfa Profil A1 A2 B1 B1 B2	otus <u>ce Coarse</u> <u>e Morphol</u> 0 - 0.1 m 0.1 - 0.2 0.2 - 0.3 0.3 - 0.4 0.4 - 0.6	Tal dre <u>Fragn</u> Iogy m m m m m	I Strata - Tree panophylla <b>nents:</b> No su Dark brown (7 structure; Mar change to - Brown (7.5YR 100mm2) Fine Dark reddish structure, <2 i fine gravelly, 2 Dark reddish structure, <2 i fine gravelly, 2 Dark reddish Smooth-ped f Dark red (2.5' Smooth-ped f Dark red (2.5)	, 12.01-20m, urface coarse 7.5YR3/2-Moi ny (>5 per 10 24/2-Moist); B e (1-2mm) ma brown (5YR3, mm, Angular 2-6mm, angu brown (5YR3, mm, Angular 2-6mm, angu YR3/6-Moist); abric; Dry; Ve YR3/6-Moist); abric; Dry; Ve brown (5YR3,	51-1m, Mid-dense Very sparse. *Spe fragments st); Brown (7.5YR- 0mm2) Fine (1-2m Grown (7.5YR5/4-D acropores, Dry; Fir /3-Moist); Reddish blocky; Massive g lar, Quartz, coarse /3-Moist); Reddish blocky; Massive g lar, Quartz, coarse ; Medium clay; St ery strong consiste ; Medium clay; St ery strong consiste /4-Moist); ; Sandy	e. *Species ir cices includes 4/2-Dry); ; Si im) macropo Pry); ; Loam; m consisten brown (5YR rade of struc fragments; brown (5YR rade of struc fragments; trong grade of ence; Gradua medium clay	andy loam res, Dry; f Massive g ce; Gradu (4/4-Dry); ture; Dry; Gradual c of structure of structure c structure of structure f structure	ptus polycarpa, Eucalypt (Heavy); Massive grade Firm consistence; Gradua grade of structure; Many ( al change to - ; Clay loam; Moderate gr Very firm consistence; 0 ; Clay loam; Moderate gr Very firm consistence; 0 hange to - e, 10-20 mm, Angular blo	a of al ade -2%, ade -2%, ocky; ocky;
Surfa Profil A1 A2 B1 B1 B2 B2	otus <u>ce Coarse</u> <u>e Morphol</u> 0 - 0.1 m 0.1 - 0.2 0.2 - 0.3 0.3 - 0.4 0.4 - 0.6 0.6 - 0.7	Tal dre <u>e Fragn</u> logy m m m m m m	I Strata - Tree panophylla <b>nents:</b> No su Dark brown (7 structure; Mar change to - Brown (7.5YR 100mm2) Find Dark reddish I structure, <2 r fine gravelly, 2 Dark reddish I structure, <2 r fine gravelly, 2 Dark reddish I structure, <2 r fine gravelly, 2 Dark reddish I Dark red (2.5 Smooth-ped f Dark red (2.5 Smooth-ped f Dark reddish I Angular block fragments; Dark reddish I	, 12.01-20m, urface coarse 7.5YR3/2-Moi hy (>5 per 10 24/2-Moist); B e (1-2mm) ma brown (5YR3; mm, Angular 2-6mm, angu brown (5YR3; mm, Angular 2-6mm, angu YR3/6-Moist); abric; Dry; Ve YR3/6-Moist); abric; Dry; Ve brown (5YR3; brown (5YR3; brown (5YR3; brown (5YR3;	51-1m, Mid-dense Very sparse. *Spe fragments (st); Brown (7.5YR5/4-D acropores, Dry; Fir /3-Moist); Reddish blocky; Massive g lar, Quartz, coarse /3-Moist); Reddish blocky; Massive g lar, Quartz, coarse (; Medium clay; St ery strong consiste (; Medium clay; St ery strong consiste (/4-Moist); ; Sandy /4-Moist); ; Sandy	e. *Species ir rcies includes 4/2-Dry); ; Sa m) macropo (ry); ; Loam; m consisten brown (5YR rade of struc e fragments; trong grade of struc e fragments; trong grade of struc e	andy loam res, Dry; f Massive g ce; Gradu 4/4-Dry); ture; Dry; Gradual c of structure I change f r; Strong g relly, 2-6m	ptus polycarpa, Eucalypt (Heavy); Massive grade Firm consistence; Gradua grade of structure; Many ( al change to - ; Clay loam; Moderate gr Very firm consistence; O ; Clay loam; Moderate gr Very firm consistence; O hange to - e, 10-20 mm, Angular blo to - grade of structure, <2 mm	o of al 2>5 p ade -2%, acade -2%, ocky; n, rse ry firr

Projec	et Name: et Code: ey Name:	Regional REG Site ID: T105 Observation ID: 1 CSIRO Division of Soils (QLD)
D	1.5 - 1.8 m	Reddish brown (5YR4/4-Moist); ; Fine sandy medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Dry; Very firm consistence; 10-20%, coarse gravelly, 20-60mm, rounded, Gravel, coarse fragments;
D	1.8 - 2.1 m	Reddish brown (5YR4/4-Moist); ; Fine sandy medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Dry; Very firm consistence; 10-20%, coarse gravelly, 20-60mm, rounded, Gravel, coarse fragments;

# Morphological Notes

# **Observation Notes**

<u>Site Notes</u> BLACK R.

Project Name:	Regional				
Project Code:	REG	Site ID:	T105	Observation ID:	1
Agency Name:	CSIRO Division	of Soils (C	QLD)		

## Laboratory Test Results:

Depth	рН	1:5 EC Ca	Exchangeabl Mg	e Cations K	Exchangeable Na Acidity	CEC	ECEC	ESP
m		dS/m	ing	R	Cmol (+)/kg			%
0 - 0.1	6.4A	0.068A						
0.1 - 0.2	6.4A	0.026A						
0.2 - 0.3	6.4A	0.026A						
0.3 - 0.4	6.1A	0.032A						
0.4 - 0.6	6.1A	0.035A 5	5.9B 2.7	0.3	0.26	3.8C		6.84
0.6 - 0.7	6.2A	0.029A						
0.7 - 0.9	6.3A	0.029A						
0.9 - 1.2	6.6A	0.023A						
1.2 - 1.5	6.7A	0.017A						
1.5 - 1.8	6.7A	0.023A						
1.8 - 2.1	6.9A	0.026A						

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk				Analys	
m	%	С %	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 - 0.4												
0.4 - 0.6												
0.6 - 0.7												
0.7 - 0.9												
0.9 - 1.2												
1.2 - 1.5												
1.5 - 1.8												
1.8 - 2.1												

Depth	COLE		Grav	/imetric/Vo	olumetric W	ater Cont	ents		K sat	K unsat
m		Sat.	0.05 Bar	0.1 Bar g/	0.5 Bar g - m3/m3	1 Bar }	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 - 0.6 0.6 - 0.7 0.7 - 0.9 0.9 - 1.2 1.2 - 1.5 1.5 - 1.8 1.8 - 2.1										

Project Name:	Regional		
Project Code:	REG	Site ID:	T105
Agency Name:	CSIRO Divisio	on of Soils (C	QLD)

### Observation ID: 1

#### Laboratory Analyses Completed for this profile

15A2_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 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
2A1	Air-dry moisture content
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension