Project Name:Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLDProject Code:DLRSite ID:253Observation ID:1Agency Name:QLD Department of Primary Industries

Desc.	nformation By:	M. DeCorte		Locality:					
	Desc.:	15/05/91		Elevation: 325 metres					
Map R	ef.:	Sheet No. : 8	057 GPS	Rainfall:	No Data				
	0 0	7770395 AM		Runoff:	Very slow				
	0	394306 Dat	um: AGD66	Drainage:	Imperfec	tly draine	d		
Geolo Expos	o <u>gy</u> sureType:	No Data		Conf. Sub. is Pa	ent. Mat.:	No Dat	a		
Geol.		No Data		Substrate Materi		No Dat			
	Form		0 404		D I .				
		Level plain <	:9m <1%	Pattern Type: Plain Relief: No Data					
	n. Type: Type:	Flat Plain		Slope Category:	Level				
Slope:		1 %		Aspect: 30 degrees					
-		ndition (dry	/): Hardsetting	, obcou	00 009.0				
Erosi			<u>.</u>						
	lassificati	on							
Austra	alian Soil Cla	assification:		Мар	oing Unit:		N/A		
	d Eutrophic C Clayey Very		sol Very thick Non-gra	velly Prine	ipal Profile	Form:	Dy3.72		
	Confidence:			Grea	t Soil Grou	o:	No suitable		
			but confidence is fair.		(
	tation:		ve disturbance other t	0 0 ,		oc Dhur	nchelytrum repens, Chrysopogon falla		
hemed		LOW Strat	a - Tussock grass, 0.	or-m, opaise. op		es - Filyi			
		triandra	Mid Strata - Tr	ee, 1.01-3m, Isolat	ed plants. *S	species ir	ncludes - Eucalyptus crebra		
		Tall Strata	a - Tree 12 01-20m S	Sparse *Species in	cludes - Euc	alvotus c	rebra, Eucalyptus papuana		
Surfa	ce Coarse		No surface coarse						
Profil	e Morphol	oqy							
A11	0 - 0.05 m								
		Earthy fabric; Many (>5 per 100mm2) Medium (2-5mm) macropo							
					(2-5mm) ma	cropores	s, Moist; Very weak		
		consis	stence; , Calcareous, ,	; , Gypseous, , ; F	(2-5mm) ma	cropores			
		consis		; , Gypseous, , ; F	(2-5mm) ma	cropores	s, Moist; Very weak		
A12	0.05 - 0.1	consis roots; 2 m Very c	stence; , Calcareous, , Clear, Smooth chang dark greyish brown (10	; , Gypseous, , ; F e to -)YR3/2-Moist); ; Lo	(2-5mm) ma eld pH 6.5 (amy sand; N	icropores Raupach Iassive g	s, Moist; Very weak , 0.05); Many, fine (1-2mm) rade of structure; Earthy		
412	0.05 - 0.1	consis roots; 2 m Very c fabric;	stence; , Calcareous, , Clear, Smooth chang dark greyish brown (10 Many (>5 per 100mn	, ; , Gypséous, , ; F e to -)YR3/2-Moist); ; Lo n2) Medium (2-5mr	(2-5mm) ma eld pH 6.5 (amy sand; M n) macropore	cropores Raupach Iassive g es, Moist	s, Moist; Very weak , 0.05); Many, fine (1-2mm) rade of structure; Earthy ; Very weak consistence; ,		
412	0.05 - 0.1	consis roots; 2 m Very c fabric;	stence; , Calcareous, , Clear, Smooth chang dark greyish brown (10	, ; , Gypséous, , ; F e to -)YR3/2-Moist); ; Lo n2) Medium (2-5mr	(2-5mm) ma eld pH 6.5 (amy sand; M n) macropore	cropores Raupach Iassive g es, Moist	s, Moist; Very weak , 0.05); Many, fine (1-2mm) rade of structure; Earthy ; Very weak consistence; ,		
	0.05 - 0.1 0.12 - 0.3	consis roots; 2 m Very o fabric; Calca 4 m Yellov	stence; , Calcareous, , Clear, Smooth chang dark greyish brown (10 Many (>5 per 100mn reous, , ; , Gypseous, vish brown (10YR5/4-1	; , Gypséous, , ; F e to - DYR3/2-Moist); ; Lo n2) Medium (2-5mr , ; Many, fine (1-2n Moist); ; Sandy Ioai	(2-5mm) ma eld pH 6.5 (amy sand; M n) macropore nm) roots; A n; Massive g	acropores Raupach Iassive g es, Moist brupt, Sn grade of s	s, Moist; Very weak , 0.05); Many, fine (1-2mm) rade of structure; Earthy ; Very weak consistence; , nooth change to - structure; Earthy fabric;		
		consis roots; 2 m Very c fabric; Calca 4 m Yellov Many	stence; , Calcareous, , Clear, Smooth chang dark greyish brown (10 Many (>5 per 100mn reous, , ; , Gypseous, vish brown (10YR5/4- (>5 per 100mm2) Fin	; , Gypséous, , ; F e to - DYR3/2-Moist); ; Lo n2) Medium (2-5mr , ; Many, fine (1-2n Moist); ; Sandy Ioar e (1-2mm) macropo	(2-5mm) ma eld pH 6.5 (amy sand; M n) macropor nm) roots; A n; Massive g ores, Modera	acropores Raupach Iassive g es, Moist brupt, Sn grade of s ately mois	a, Moist; Very weak , 0.05); Many, fine (1-2mm) rade of structure; Earthy ; Very weak consistence; , nooth change to - structure; Earthy fabric; st; Weak consistence; Very		
		consis roots; 2 m Very c fabric; Calca 4 m Yellov Many few (0	stence; , Calcareous, , Clear, Smooth chang dark greyish brown (10 Many (>5 per 100mn reous, , ; , Gypseous, vish brown (10YR5/4- (>5 per 100mm2) Fin 0 - 2 %), Ferromangan	; , Gypséous, , ; F e to - DYR3/2-Moist); ; Lo n2) Medium (2-5mr , ; Many, fine (1-2n Moist); ; Sandy Ioar e (1-2mm) macropo iferous, Medium (2	(2-5mm) ma eld pH 6.5 (amy sand; M n) macropor m) roots; A n; Massive (ores, Modera -6 mm), Noo	Acropores Raupach Massive g es, Moist brupt, Sn grade of s ately mois dules; , C	s, Moist; Very weak , 0.05); Many, fine (1-2mm) rade of structure; Earthy ; Very weak consistence; , nooth change to - structure; Earthy fabric;		
A21j	0.12 - 0.3	consis roots; 2 m Very c fabric; Calca 4 m Yellov Many few (0 Field	stence; , Calcareous, , Clear, Smooth chang dark greyish brown (10 Many (>5 per 100mn reous, , ; , Gypseous, vish brown (10YR5/4- (>5 per 100mm2) Fin (>5 per 100mm2) Fin pH 6.5 (Raupach, 0.3	;;, Gypseous, ,; F e to - DYR3/2-Moist); ; Lo h2) Medium (2-5mr ,; Many, fine (1-2n Moist); ; Sandy Ioar e (1-2mm) macropo iferous, Medium (2 8); Common, fine (1	(2-5mm) ma eld pH 6.5 (amy sand; M n) macropor nm) roots; A n; Massive (rres, Modera -6 mm), Noo -2mm) roots	Acropores Raupach Asssive g es, Moist brupt, Sn grade of s ately moist dules; , C ; Gradua	s, Moist; Very weak , 0.05); Many, fine (1-2mm) rade of structure; Earthy ; Very weak consistence; , nooth change to - structure; Earthy fabric; st; Weak consistence; Very calcareous, , ; , Gypseous, , ; I, Smooth change to -		
421j		consis roots; 2 m Very c fabric; Calca 4 m Yellow Many few (0 Field 4 m Browr	stence; , Calcareous, , Clear, Smooth chang dark greyish brown (10 Many (>5 per 100mn reous, , ; , Gypseous, vish brown (10YR5/4- (>5 per 100mm2) Fin (>5 per 100mm2) Fin (>5 per 100mm2) Fin pH 6.5 (Raupach, 0.3 hish yellow (10YR6/6-I	; , Gypséous, , ; F e to - DYR3/2-Moist); ; Lo n2) Medium (2-5mr , ; Many, fine (1-2n Moist); ; Sandy Ioar e (1-2mm) macropo iferous, Medium (2 B); Common, fine (1 Moist); Mottles, 10	(2-5mm) ma eld pH 6.5 (amy sand; N n) macropore im) roots; A n; Massive (ores, Modera -6 mm), Noo -2mm) roots 'R72, 0-2%	Acropores Raupach Massive g es, Moist brupt, Sn grade of s ately mois dules; , C ; Gradua , 5-15mm	s, Moist; Very weak , 0.05); Many, fine (1-2mm) rade of structure; Earthy ; Very weak consistence; , nooth change to - structure; Earthy fabric; st; Weak consistence; Very calcareous, , ; , Gypseous, , ; I, Smooth change to - n, Faint; Mottles, 7.5YR58, 0-		
A21j	0.12 - 0.3	consis roots; 2 m Very c fabric; Calca 4 m Yellow Many few (0 Field 4 m Browr 2%; \$	stence; , Calcareous, , Clear, Smooth chang dark greyish brown (10 Many (>5 per 100mn reous, , ; , Gypseous, vish brown (10YR5/4- (>5 per 100mm2) Fin - 2 %), Ferromangan pH 6.5 (Raupach, 0.3 hish yellow (10YR6/6-1 Sandy clay loam (Hea	; , Gypseous, , ; F e to - DYR3/2-Moist); ; Lo n2) Medium (2-5mr , ; Many, fine (1-2n Moist); ; Sandy Ioar e (1-2mm) macropo iferous, Medium (2 B); Common, fine (1 Moist); Mottles, 10 vy); Massive grade	(2-5mm) ma eld pH 6.5 (amy sand; M n) macropore im) roots; A n; Massive (ores, Modera -6 mm), Noo -2mm) roots (R72, 0-2% of structure;	Acropores Raupach Massive g es, Moist brupt, Sn grade of s ttely mois dules; , C ; Gradua , 5-15mm Earthy fi	s, Moist; Very weak , 0.05); Many, fine (1-2mm) rade of structure; Earthy ; Very weak consistence; , nooth change to - structure; Earthy fabric; st; Weak consistence; Very alcareous, , ; , Gypseous, , ; I, Smooth change to - n, Faint; Mottles, 7.5YR58, 0- abric; Many (>5 per		
A21j	0.12 - 0.3	consis roots; 2 m Very c fabric; Calca 4 m Yellov Many few (0 Field 4 m Brown 2%; \$ 100m	stence; , Calcareous, , Clear, Smooth chang dark greyish brown (10 Many (>5 per 100mn reous, , ; , Gypseous, vish brown (10YR5/4-1 (>5 per 100mm2) Fin (>5 per 100mm2) Fin (> 2 %), Ferromangan pH 6.5 (Raupach, 0.3 hish yellow (10YR6/6-1 Sandy clay loam (Hea m2) Fine (1-2mm) ma	; , Gypseous, , ; F e to - DYR3/2-Moist); ; Lo n2) Medium (2-5mr , ; Many, fine (1-2n Moist); ; Sandy Ioar e (1-2mm) macropa iferous, Medium (2 8); Common, fine (1 Moist); Mottles, 10 vy); Massive grade cropores, Moderate	(2-5mm) ma eld pH 6.5 (amy sand; M n) macropore im) roots; A n; Massive (res, Modera -6 mm), Noo -2mm) roots (R72, 0-2% of structure; vly moist; We	Acropores Raupach Massive g es, Moist brupt, Sn grade of s ttely moist dules; , C dules; , C Gradua , 5-15mm Earthy fi eak consi	s, Moist; Very weak , 0.05); Many, fine (1-2mm) rade of structure; Earthy ; Very weak consistence; , nooth change to - structure; Earthy fabric; st; Weak consistence; Very calcareous, , ; , Gypseous, , ; I, Smooth change to - n, Faint; Mottles, 7.5YR58, 0-		
A21j	0.12 - 0.3	consis roots; 2 m Very c fabric; Calca 4 m Yellov Many few (0 Field 4 m Browr 2%; S 100m Ferror	stence; , Calcareous, , Clear, Smooth chang dark greyish brown (10 Many (>5 per 100mn reous, , ; , Gypseous, vish brown (10YR5/4-1 (>5 per 100mm2) Fin (>5 per 100mm2) Fin (> 2 %), Ferromangan pH 6.5 (Raupach, 0.3 hish yellow (10YR6/6-1 Sandy clay loam (Hea m2) Fine (1-2mm) ma	; , Gypseous, , ; F e to - DYR3/2-Moist); ; Lo n2) Medium (2-5m , ; Many, fine (1-2n Moist); ; Sandy Ioar e (1-2mm) macropo iferous, Medium (2 8); Common, fine (1 Moist); Mottles, 10 vy); Massive grade cropores, Moderate im (2 -6 mm), Nodu	(2-5mm) ma eld pH 6.5 (amy sand; M n) macropore im) roots; A n; Massive (res, Modera -6 mm), Noo -2mm) roots (R72, 0-2% of structure; vly moist; We	Acropores Raupach Massive g es, Moist brupt, Sn grade of s ttely moist dules; , C dules; , C Gradua , 5-15mm Earthy fi eak consi	s, Moist; Very weak , 0.05); Many, fine (1-2mm) rade of structure; Earthy ; Very weak consistence; , nooth change to - structure; Earthy fabric; st; Weak consistence; Very alcareous, , ; , Gypseous, , ; I, Smooth change to - n, Faint; Mottles, 7.5YR58, 0- abric; Many (>5 per istence; Few (2 - 10 %),		
A21j A22j	0.12 - 0.3	consis roots; 2 m Very of fabric; Calca 4 m Yellov Many few (0 Field 4 m Brown 2%; S 100mi Ferror (1-2m	stence; , Calcareous, , Clear, Smooth chang dark greyish brown (10 Many (>5 per 100mm reous, , ; , Gypseous, vish brown (10YR5/4- (>5 per 100mm2) Fin - 2 %), Ferromangan pH 6.5 (Raupach, 0.3 hish yellow (10YR6/6-I Sandy clay loam (Hea m2) Fine (1-2mm) ma nanganiferous, Mediu m) roots; Clear, Smoo	; , Gypseous, , ; F e to - DYR3/2-Moist); ; Lo n2) Medium (2-5mr , ; Many, fine (1-2n Moist); ; Sandy Ioar e (1-2mm) macropo iferous, Medium (2 B); Common, fine (1 Moist); Mottles, 10 vy); Massive grade cropores, Moderate im (2 -6 mm), Nodu oth change to -	(2-5mm) ma eld pH 6.5 (amy sand; N n) macroport m) roots; A n; Massive g ores, Modera -6 mm), Noo -2mm) roots (R72, 0-2% of structure; els; , Calcar	Acropores Raupach Massive g es, Moist brupt, Sn grade of s ately mois dules; , C ; Gradua , 5-15mm Earthy fi eoak consi eous, , ;	s, Moist; Very weak , 0.05); Many, fine (1-2mm) rade of structure; Earthy ; Very weak consistence; , nooth change to - structure; Earthy fabric; st; Weak consistence; Very alcareous, , ; , Gypseous, , ; I, Smooth change to - n, Faint; Mottles, 7.5YR58, 0- abric; Many (>5 per istence; Few (2 - 10 %),		
A21j A22j	0.12 - 0.3 0.34 - 0.5	consis roots; 2 m Very o fabric; Calca 4 m Yellov Many few (0 Field 4 m Brown 2%; S 100m Ferror (1-2m 3 m Pale b	stence; , Calcareous, , Clear, Smooth chang dark greyish brown (10 Many (>5 per 100mn reous, , ; , Gypseous, vish brown (10YR5/4- (>5 per 100mm2) Fin- (>5 per 100mm2) Fin- (>5 per 100mm2) Fin- (>5 per 100mm2) Fin- (>5 per 100mm2) Fin- pH 6.5 (Raupach, 0.3 hish yellow (10YR6/6- Sandy clay loam (Heai m2) Fine (1-2mm) ma manganiferous, Mediu m) roots; Clear, Smoo prown (10YR6/3-Moist	; , Gypseous, , ; F e to - DYR3/2-Moist); ; Lo n2) Medium (2-5mr , ; Many, fine (1-2n Moist); ; Sandy Ioar e (1-2mm) macropo iferous, Medium (2 B); Common, fine (1 Moist); Mottles, 10 vy); Massive grade cropores, Moderate im (2 -6 mm), Nodu oth change to -	(2-5mm) ma eld pH 6.5 (amy sand; M n) macroport m) roots; A n; Massive g ores, Modera -6 mm), Noo -2mm) roots (R72, 0-2% of structure; Hy moist; We les; , Calcar	Acropores Raupach Massive g es, Moist brupt, Sn grade of s ately mois dules; , C ; Gradua , 5-15mm Earthy fi eous, , ; 5-15mm,	a, Moist; Very weak , 0.05); Many, fine (1-2mm) rade of structure; Earthy ; Very weak consistence; , nooth change to - structure; Earthy fabric; st; Weak consistence; Very calcareous, , ; , Gypseous, , ; I, Smooth change to - n, Faint; Mottles, 7.5YR58, 0- abric; Many (>5 per istence; Few (2 - 10 %), , Gypseous, , ; Common, fine		
A21j A22j	0.12 - 0.3 0.34 - 0.5	consis roots; 2 m Very c fabric; Calca 4 m Yellow Many few (0 Field 4 m Brown 2%; S 100m Ferror (1-2m 3 m Pale b 20-50° per 10	stence; , Calcareous, , Clear, Smooth chang dark greyish brown (10 Many (>5 per 100mn reous, , ; , Gypseous, vish brown (10YR5/4- (>5 per 100mm2) Fin (>5 per 100mm2) Fin (> 2 %), Ferromangan pH 6.5 (Raupach, 0.3 hish yellow (10YR6/6- Sandy clay loam (Hea m2) Fine (1-2mm) ma manganiferous, Mediu m) roots; Clear, Smoo prown (10YR6/3-Moist % ; Medium clay; Wea 00mm2) Fine (1-2mm)	; , Gypseous, , ; F e to - DYR3/2-Moist); ; Lo n2) Medium (2-5mr , ; Many, fine (1-2n Moist); ; Sandy Ioar e (1-2mm) macrope iferous, Medium (2 B); Common, fine (1 Moist); Mottles, 10N vy); Massive grade cropores, Moderate m (2 -6 mm), Nodu oth change to -); Mottles, 7.5YR58 ak grade of structur macropores, Mode	(2-5mm) ma eld pH 6.5 (amy sand; M n) macropore inm) roots; A n; Massive (ores, Modera -6 mm), Noo -2mm) roots (R72, 0-2% of structure; ely moist; We les; , Calcar s, 20-50 mr erately moist	Acropores Raupach Massive g es, Moist brupt, Sn grade of s tately mois dules; , C ; Gradua , 5-15mm Earthy fi eak consi eous, , ; ; ; , Polyhe ; Weak c	s, Moist; Very weak , 0.05); Many, fine (1-2mm) rade of structure; Earthy ; Very weak consistence; , nooth change to - structure; Earthy fabric; st; Weak consistence; Very calcareous, , ; , Gypseous, , ; I, Smooth change to - n, Faint; Mottles, 7.5YR58, 0- abric; Many (>5 per stence; Few (2 - 10 %), , Gypseous, , ; Common, fine Distinct; Mottles, 2.5YR48, dral; Earthy fabric; Many (>5 onsistence; Common (10 - 20		
A21j A22j	0.12 - 0.3 0.34 - 0.5	consis roots; 2 m Very c fabric; Calca 4 m Yellow Many few (0 Field 4 m Brown 2%; S 100m Ferror (1-2m 3 m Pale b 20-50 per 10 %), F	stence; , Calcareous, , Clear, Smooth chang dark greyish brown (10 Many (>5 per 100mn reous, , ; , Gypseous, vish brown (10YR5/4- (>5 per 100mm2) Fin (> 2 %), Ferromangan pH 6.5 (Raupach, 0.3 hish yellow (10YR6/6- Sandy clay loam (Hea m2) Fine (1-2mm) ma manganiferous, Mediu m) roots; Clear, Smoo prown (10YR6/3-Moist % ; Medium clay; Wea 00mm2) Fine (1-2mm) Ferromanganiferous, M	; , Gypseous, , ; F e to - DYR3/2-Moist); ; Lo n2) Medium (2-5mr , ; Many, fine (1-2n Moist); ; Sandy Ioar e (1-2mm) macrope iferous, Medium (2 B); Common, fine (1 Moist); Mottles, 10 vy); Massive grade cropores, Moderate im (2 -6 mm), Nodu oth change to -); Mottles, 7.5YR58 ak grade of structur macropores, Mode Medium (2 -6 mm),	(2-5mm) ma eld pH 6.5 (amy sand; M n) macropore inm) roots; A n; Massive (ores, Modera -6 mm), Noo -2mm) roots (R72, 0-2% of structure; ly moist; We les; , Calcar s, 20-50 mr rately moist Nodules; , C	Acropores Raupach Massive g es, Moist brupt, Sn grade of s ately mois dules; , C ; Gradua , 5-15mm, Earthy f eak consi eous, , ; ; ; ; , Polyhe ; Weak c alcareou	s, Moist; Very weak , 0.05); Many, fine (1-2mm) rade of structure; Earthy ; Very weak consistence; , nooth change to - structure; Earthy fabric; st; Weak consistence; Very alcareous, , ; , Gypseous, , ; I, Smooth change to - n, Faint; Mottles, 7.5YR58, 0- abric; Many (>5 per istence; Few (2 - 10 %), , Gypseous, , ; Common, fine Distinct; Mottles, 2.5YR48, dral; Earthy fabric; Many (>5 onsistence; Common (10 - 20 s, , ; , Gypseous, , ; Field pH		
A21j A22j	0.12 - 0.3 0.34 - 0.5	consis roots; 2 m Very c fabric; Calca 4 m Yellow Many few (0 Field 4 m Brown 2%; S 100m Ferror (1-2m 3 m Pale b 20-50 per 10 %), F	stence; , Calcareous, , Clear, Smooth chang dark greyish brown (10 Many (>5 per 100mn reous, , ; , Gypseous, vish brown (10YR5/4- (>5 per 100mm2) Fin (>5 per 100mm2) Fin (> 2 %), Ferromangan pH 6.5 (Raupach, 0.3 hish yellow (10YR6/6- Sandy clay loam (Hea m2) Fine (1-2mm) ma manganiferous, Mediu m) roots; Clear, Smoo prown (10YR6/3-Moist % ; Medium clay; Wea 00mm2) Fine (1-2mm)	; , Gypseous, , ; F e to - DYR3/2-Moist); ; Lo n2) Medium (2-5mr , ; Many, fine (1-2n Moist); ; Sandy Ioar e (1-2mm) macrope iferous, Medium (2 B); Common, fine (1 Moist); Mottles, 10 vy); Massive grade cropores, Moderate im (2 -6 mm), Nodu oth change to -); Mottles, 7.5YR58 ak grade of structur macropores, Mode Medium (2 -6 mm),	(2-5mm) ma eld pH 6.5 (amy sand; M n) macropore inm) roots; A n; Massive (ores, Modera -6 mm), Noo -2mm) roots (R72, 0-2% of structure; ly moist; We les; , Calcar s, 20-50 mr rately moist Nodules; , C	Acropores Raupach Massive g es, Moist brupt, Sn grade of s ately mois dules; , C ; Gradua , 5-15mm, Earthy f eak consi eous, , ; ; ; ; , Polyhe ; Weak c alcareou	s, Moist; Very weak , 0.05); Many, fine (1-2mm) rade of structure; Earthy ; Very weak consistence; , nooth change to - structure; Earthy fabric; st; Weak consistence; Very alcareous, , ; , Gypseous, , ; I, Smooth change to - n, Faint; Mottles, 7.5YR58, 0- abric; Many (>5 per istence; Few (2 - 10 %), , Gypseous, , ; Common, fine Distinct; Mottles, 2.5YR48, dral; Earthy fabric; Many (>5 onsistence; Common (10 - 20 s, , ; , Gypseous, , ; Field pH		
A21j A22j 321c	0.12 - 0.3 0.34 - 0.5	consis roots; 2 m Very of fabric; Calca 4 m Yellow Many few (0 Field 4 m Brown 2%; S 100m Ferror (1-2m 3 m Pale b 20-50 per 10 %), F 7 (Rau 8 m Light y	stence; , Calcareous, , Clear, Smooth chang dark greyish brown (10 Many (>5 per 100mm reous, , ; , Gypseous, vish brown (10YR5/4-1 (>5 per 100mm2) Fin - 2 %), Ferromangan pH 6.5 (Raupach, 0.3 hish yellow (10YR6/6-1 Sandy clay loam (Hea m2) Fine (1-2mm) ma manganiferous, Mediu m) roots; Clear, Smoo prown (10YR6/3-Moist % ; Medium clay; Wea 00mm2) Fine (1-2mm) Ferromanganiferous, M upach, 0.6); Few, very yellowish brown (10YR	; , Gypseous, , ; F e to - DYR3/2-Moist); ; Lo n2) Medium (2-5mr , ; Many, fine (1-2n Moist); ; Sandy Ioar e (1-2mm) macropo iferous, Medium (2 8); Common, fine (1 Moist); Mottles, 10N vy); Massive grade cropores, Moderate im (2 -6 mm), Nodu oth change to -); Mottles, 7.5YR58 ak grade of structur macropores, Moderate Medium (2 -6 mm), v r fine (0-1mm) roots R6/4-Moist); Mottles	(2-5mm) ma eld pH 6.5 (amy sand; N n) macroporn m) roots; Al n; Massive g ores, Modera -6 mm), Noo -2mm) roots (R72, 0-2% of structure; ly moist; We les; , Calcar a, 20-50%, 5 e, 20-50 mist Nodules; , C c; Clear, Sma s, 10YR68, 1	Acropores Raupach Massive g es, Moist brupt, Sn grade of s ately mois dules; , C ; Gradua , 5-15mm, Earthy f eak cons; eous, , ; ; Weak c alcareou poth char 0-20% ,	s, Moist; Very weak , 0.05); Many, fine (1-2mm) rade of structure; Earthy ; Very weak consistence; , nooth change to - structure; Earthy fabric; st; Weak consistence; Very alcareous, , ; , Gypseous, , ; I, Smooth change to - n, Faint; Mottles, 7.5YR58, 0- abric; Many (>5 per stence; Few (2 - 10 %), , Gypseous, , ; Common, fine Distinct; Mottles, 2.5YR48, dral; Earthy fabric; Many (>5 onsistence; Common (10 - 20 s, , ; , Gypseous, , ; Field pH nge to - 5-15mm, Faint; Mottles, 10-		
A12 A21j A22j B21c B22	0.12 - 0.3 0.34 - 0.5 0.54 - 0.8	consis roots; 2 m Very of fabric; Calca 4 m Yellow Many few (0 Field 4 m Brown 2%; S 100m Ferror (1-2m 3 m Pale b 20-50 per 10 %), F 7 (Rau 8 m Light y 20%; S	stence; , Calcareous, , Clear, Smooth chang dark greyish brown (10 Many (>5 per 100mm reous, , ; , Gypseous, vish brown (10YR5/4-1 (>5 per 100mm2) Fin - 2 %), Ferromangan pH 6.5 (Raupach, 0.3 hish yellow (10YR6/6-1 Sandy clay loam (Hea m2) Fine (1-2mm) ma manganiferous, Mediu m) roots; Clear, Smoo prown (10YR6/3-Moist % ; Medium clay; Wea 00mm2) Fine (1-2mm) Ferromanganiferous, M upach, 0.6); Few, very yellowish brown (10YR	; , Gypseous, , ; F e to - DYR3/2-Moist); ; Lo n2) Medium (2-5mr , ; Many, fine (1-2n Moist); ; Sandy Ioar e (1-2mm) macropo iferous, Medium (2 8); Common, fine (1 Moist); Mottles, 10N vy); Massive grade cropores, Moderate im (2 -6 mm), Nodu oth change to -); Mottles, 7.5YR58 ak grade of structur macropores, Moderate Medium (2 -6 mm), vodu oth change to -); Mottles, 7.5YR58 ak grade of structur macropores, Moderate Medium (2 -6 mm), vodu Structure, 2	(2-5mm) ma eld pH 6.5 (amy sand; N n) macroporn m) roots; Al n; Massive g ores, Modera -6 mm), Noo -2mm) roots (R72, 0-2% of structure; ly moist; We les; , Calcar c, 20-50%, 5 e, 20-50 mm orately moist Nodules; , C ; Clear, Smo s, 10YR68, 1 0-50 mm, P	Acropores Raupach Massive g es, Moist brupt, Sn grade of s ately mois dules; , C ; Gradua , 5-15mm, ak cons; eous, , ; ; , Polyhe ; Weak c alcareou poth char 0-20% , olyhedra	s, Moist; Very weak , 0.05); Many, fine (1-2mm) rade of structure; Earthy ; Very weak consistence; , nooth change to - structure; Earthy fabric; st; Weak consistence; Very alcareous, , ; , Gypseous, , ; I, Smooth change to - n, Faint; Mottles, 7.5YR58, 0- abric; Many (>5 per stence; Few (2 - 10 %), , Gypseous, , ; Common, fine Distinct; Mottles, 2.5YR48, dral; Earthy fabric; Many (>5 onsistence; Common (10 - 20 s, , ; , Gypseous, , ; Field pH nge to - 5-15mm, Faint; Mottles, 10- l; Earthy fabric; Many (>5 per		

Ferromanganiferous, Coarse (6 - 20 mm), Nodules; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 0.9); Few, very fine (0-1mm) roots; Gradual, Smooth change to -

Project Name: Project Code: Agency Name: Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLDDLRSite ID:253Observation ID:1 DLR Site ID: 253 QLD Department of Primary Industries

B31c 1.08 - 1.3	 Pale brown (10YR6/3-Moist); Mottles, 2.5YR36, 20-50%, 15-30mm, Distinct; Mottles, 7.5YR68, 20-50%; Light clay; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moist; Weak consistence; Very many (50 - 100%), Ferromanganiferous, Very coarse (20 - 60 mm), Nodules; , Calcareous, ,; , Gypseous, ,; Field pH 7.5 (Raupach, 1.2); Clear, Smooth change to -
B32c 1.35 - 1.58	Light brownish grey (10YR6/2-Moist); Mottles, 7.5YR58, 2-10%, 5-15mm, Distinct; Mottles, 2-10%; Coarse sandy light clay; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moist; Weak consistence; Very many (50 - 100 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules; , Calcareous, , ; , Gypseous, , ; Field pH 7.5 (Raupach, 1.5); Gradual, Smooth change to -
2A2b 1.58 - 1.74	 Light grey (10YR7/2-Moist); ; Coarse sand; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moist; Weak consistence; Very many (50 - 100 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules; , Calcareous, , ; , Gypseous, , ; Sharp, Smooth change to -
2B2b 1.74 - 1.8	 Light brownish grey (10YR6/2-Moist); Mottles, 2.5YR56, 10-20%, 5-15mm, Prominent; Mottles, 10-20%; Coarse sandy light clay; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moist; Weak consistence; Very many (50 - 100 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules; , Calcareous, , ; , Gypseous, , ; Field pH 7.5 (Raupach, 1.8);
Morphological N	lotes

Observation Notes

Site Notes

Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD DLR Site ID: 253 Observation ID: 1 Project Name: Project Code: Agency Name: DLR Site ID: 253 QLD Department of Primary Industries

Laboratory Test Results:

Depth	рН	1:5 EC	E Ca	Exchangeab Mg	le Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	ou	ing	ĸ		(+)/kg			%
0 - 0.1	5C 6.2A	0.03A								
0.12 - 0.34	5.2C 6.5A	0.01A								
0.54 - 0.83	5.5C 6.5A	0.04A	2.5B	2.6	0.07	0.37				
0.83 - 1.08	5.9C 7A	0.04A								
1.08 - 1.35 1.35 - 1.58	7.5A 7.6A	0.03A 0.02A	2E 0.89E	2.35 1.35	0.1 0.04	0.4 0.18		5.5B 1B		7.27 18.00

Depth m	CaCO3 %	Organic C %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	Pa GV	article CS	Size FS %	Analysis Silt	s Clay
0 - 0.1 0.12 - 0.34		0.4A			0.02A	N			45D	37	8	18
0.54 - 0.83									29D	22	2	45
0.83 - 1.08 1.08 - 1.35				0.022A		0.158A			35D	26	4	35
1.35 - 1.58				0.018A		0.09A			60D	23	7	12
Depth	COLE	_				ter Content	-		Ks	at	K unsa	t
m		Sat.	0.05 Bar).5 Bar · m3/m3	1 Bar 5	5 Bar 15	Bar	mm	/h	mm/h	

0 - 0.1 0.12 - 0.34 0.54 - 0.83 0.83 - 1.08 1.08 - 1.35 1.35 - 1.58

Project Name:Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLDProject Code:DLRSite ID:253Observation ID:1Agency Name:QLD Department of Primary Industries

Laboratory Analyses Completed for this profile

Laboratory Ana	alyses Completed for this profile
10A1 12A1_CU 12A1_FE 12A1_ZN 15A2_CA	Total sulfur - X-ray fluorescence DTPA - extractable copper, zinc, manganese and iron DTPA - extractable copper, zinc, manganese and iron DTPA - extractable copper, zinc, manganese and iron Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_K 15A2_MG 15A2_NA 15C1_CA	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 Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_CEC 15C1_K	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
17A1 3A1 4A1 4B2 5A1 6A1 7A2 9A1 P10_PB_C P10_PB_CS P10_PB_FS P10_PB_Z	Total potassium - X-ray fluorescence EC of 1:5 soil/water extract pH of 1:5 soil/water suspension pH of 1:5 soil/0.01M calcium chloride extract - following Method 4A1 Chloride - 1:5 soil/water extract, potentiometric titration Organic carbon - Walkley and Black Total nitrogen - semimicro Kjeldahl , automated colour Total phosphorus - X-ray fluorescence Clay (%) - Plummet balance Coarse sand (%) - Plummet balance Fine sand (%) - Plummet balance Silt (%) - Plummet balance