Project Name:	Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD							
Project Code:	DLR Site ID:	T550	Observation ID: 1					
Agency Name:	QLD Department of Prin	nary Industries						
	•	•						
Site Informatio	<u>n</u>							
Desc. By:	M.G. Cannon	Locality:						
Date Desc.:	03/03/92	Elevation:	306 metres					
Map Ref.:	Sheet No. : 8156 GPS	Rainfall:	No Data					
Northing/Long.:	7719304 AMG zone: 55	Runoff:	Moderately rapid					
Easting/Lat.:	439424 Datum: AGD66	Drainage:	Poorly drained					

Eastin		43942	24	Datum:	AGD66	Drainage:		Poorly dra	ained	
<u>Geolo</u> Expos Geol. F	ureType:	No Da Tf	ata			Conf. Sub. Substrate M			No Data Undistu	a ırbed soil core, No Data
Morph Elem. Slope:	ope Class: . Type: Type:	Flat Plain <1 %			<1% Cracking, Surface	Pattern Typ Relief: Slope Cate Aspect: e crust		Plain No Data Level No Data		
	on: 3 m,9 Iassificati									
_	lian Soil Cl		catio	on [.]			Mannir	ng Unit:		N/A
Endoca					sol Gravelly Fine	Medium		al Profile	Form:	Ug5.34
	confidence: cessary ana		data	a are ava	ailable.		Great S	Soil Group):	Brown clay
	•	•			ig, for example se	lective loggin	ng			
<u>Veget</u> Aristida	ation:	Lo	w S	Strata - T	ussock grass, 0.5	1-1m, Spars	e. *Spec	ies include	es - Both	riochloa decipiens, Chrysopogon fallax,
	hemiglauca	sp	ecie	es	Mid Strata - Tr	ee, 3.01-6m,	Sparse.	*Species i	ncludes	- Terminalia oblongata, Bursaria incana,
	<mark>ce Coarse</mark> ● Morphol 0 - 0.02 n	Frag ogy	me Bro fat Qu	nts: 10 own (10 bric; Dry uartzite,)-20%, medium gi YR4/3-Moist); ; Li ; Strong consister	avelly, 6-20n ght clay; Moc ice; 2-10%, fi ; , Calcareou	nm, subi derate gr ine grav s, , ; , G	rounded, C rade of stru elly, 2-6mn ypseous, ,	auartzite n, subrou ; Field p	yrodendron, Eucalyptus coolibah 2 mm, Platy; Smooth-ped unded, dispersed, H 8.5 (Raupach, 0.01);
A12	0.02 - 0.2	2 m	mr fat Qu Ca	m, Suba bric; Dry uartzite, alcareou	ngular blocky; Mo ; Very strong cons coarse fragments	derate grade sistence; 2-10 ; Few (2 - 10	of struc 0%, fine %), Mai	ture, 5-10 gravelly, 2 nganiferou	mm, Sub -6mm, s s, Fine ((rade of structure, 10-20 bangular blocky; Smooth-ped ubrounded, dispersed, 0 - 2 mm), Nodules; , n, very fine (0-1mm) roots;
A13	0.22 - 0.5	2 m	Dark greyish brown (2.5Y4/3-Moist); ; Medium heavy clay; Strong grade of structure, 10-20 mm, Subangular blocky; Moderate grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Dry; Very strong consistence; 2-10%, fine gravelly, 2-6mm, subrounded, dispersed, Quartzite, coarse fragments; Few (2 - 10%), Manganiferous, Fine (0 - 2 mm), Nodules; Few (2 - 10%), Calcareous, Fine (0 - 2 mm), Soft segregations; , Gypseous, , ; Field pH 9 (Raupach, 0.4); Few, very fine (0-1mm) roots; Clear, Wavy change to -							
B21	0.52 - 0.8	2 m	Su fat dis Ca	ubangula bric; Dry stinct; Fe alcareou	ar blocky; Moderat ; Strong consister ew (2 - 10 %), Mai	e grade of st nce; Commor nganiferous,	ructure, n cutans Fine (0 -	5-10 mm, , 10-50% o · 2 mm), No	Subangu f ped fac odules; C	of structure, 10-20mm, Jlar blocky; Smooth-ped ces or walls coated, Common (10 - 20%), d pH 8.5 (Raupach, 0.7);
B22	0.82 - 1.1	4 m	20 Cc Ma	mm, Su ommon d anganife	ubangular blocky; cutans, 10-50% of	Smooth-ped ped faces or nm), Nodules	fabric; N r walls c s; Few (2	Aoderately oated, disti 2 - 10 %), (moist; V nct; Few Calcareo	us, Fine (0 - 2 mm), Soft

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Project Code:	DLR	Site ID:	T550	Observation ID:	1
Agency Name:	QLD Departmen	t of Primar	y Industries		

B22	1.14 - 1.44 m	Dark yellowish brown (10YR4/4-Moist); ; Medium heavy clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; Few cutans, <10% of ped faces or walls coated, distinct; Few (2 - 10%), Manganiferous, Fine (0 - 2 mm), Nodules; Few (2 - 10%), Calcareous, Fine (0 - 2 mm), Soft segregations; , Gypseous, , ; Field pH 8.5 (Raupach, 1.3); Diffuse, Wavy change to -
B23	1.44 - 1.84 m	Dark yellowish brown (10YR4/5-Moist); ; Medium heavy clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; Few cutans, <10% of ped faces or walls coated, distinct; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm),

<10% of ped faces of walls coated, distinct; Few (2 - 10%), Manganiferous, Fine (0 - 2 mm), Nodules; Very few (0 - 2%), Calcareous, Fine (0 - 2 mm), Soft segregations; , Gypseous, , ; Field pH 8.5 (Raupach, 1.6); Wavy change to -

Morphological Notes

Observation Notes DLR1056; TUNNELL EROSION COMMON;SURFACE WEAKLY SELF MULCHING - SAMPLED Site Notes

Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD DLR Site ID: T550 Observation ID: 1 Project Name: Project Code: Agency Name: DLR Site ID: T550 QLD Department of Primary Industries

Laboratory Test Results:

Depth	рН	1:5 EC	Exe Ca	changeable	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ca	Mg	n	Cmol				%
0 - 0.02	7.79A	0.05A	26B 15.2J	5.7 5.5	0.78 0.33	0.27 0.08		21.71		1.24 0.37
0.02 - 0.22 0.22 - 0.52	8.7A 9.12A	0.07A 0.13A	7.26J 23B	2.75 8.4	0.29 0.35	0.03 1.9		12.21		0.25
0.52 - 0.82	8.71A	0.51A	11.5J	7.99	0.03	1.73		20.3D 26.8l		8.52 6.46
0.82 - 1.14 1.14 - 1.44	8.68A 8.51A	0.61A 0.65A								
1.44 - 1.84	8.39A	0.69A	7.95J	9.06	0.1	2.45		25.81		9.50
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Tot K		Particle GV CS	Size FS	Analysis Silt Clav

m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	CS	FS %	Silt	Clay
0 - 0.02 0.02 - 0.22 0.22 - 0.52	0.2A 1A	1.1B 0.6B		0.03A	0.07A	0.256A			12A 10A	32 23	15 18	40 50
0.52 - 0.82 0.82 - 1.14 1.14 - 1.44	0.6A	0.4B							9A	23	18	51
1.44 - 1.84									8A	21	17	54
Depth	COLE		Gravin	netric/Volu	metric Wate	er Content	S		K sa	ıt	K unsa	ıt

Depth	COLE	Gravimetric/volumetric water contents								r unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m		g/g - m3/m3								mm/h
0 - 0.02										
0.02 - 0.22										
0.02 0.22										
0 / / - 0 5 /										

0.22 - 0.52 0.52 - 0.82 0.82 - 1.14 1.14 - 1.44 1.44 - 1.84

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Laboratory Analyses Completed for this profile

10A1 10B 12A1_CU 12A1_FE 12A1_MN 12A1_ZN 15A2_CA	Total sulfur - X-ray fluorescence Extractable sulfur(mg/kg) - Phosphate extractable sulfur DTPA - extractable copper, zinc, manganese and iron 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 15D2_CEC 15F1_CA 15F1_K 15F1_MG 15F1_NA 15F3 15N1 17A1 19A1 3A1 4A1 5A1 6B2 7A2 9A1 P10_CF_C P10_CF_CS P10_CF_S	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 CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; automatic extractor Exchangeable bases by 0.01M silver-thiourea (AgTU)+, no pretreatment for soluble salts Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts CEC by 0.01M silver-thiourea (AgTU)+ Exchangeable sodium percentage (ESP) Total potassium - X-ray fluorescence Carbonates - rapid titration EC of 1:5 soil/water extract pH of 1:5 soil/water extract, potentiometric titration Total organic carbon - high frequency induction furnace, volumetric Total nitrogen - semimicro Kjeldahl , automated colour Total phosphorus - X-ray fluorescence Clay (%) - Coventry and Fett pipette method Coarse sand (%) - Coventry and Fett pipette method Fine sand (%) - Coventry and Fett pipette method
P10_CF_Z	Silt (%) - Coventry and Fett pipette method