Project Name Project Code: Agency Name	W	QR QR SIRO Division	Site ID: of Soils (Q	B490 LD)	0	bservatio	n ID:	1		
Site Information Desc. By: Date Desc.: Map Ref.: Northing/Long.: Easting/Lat.:	G.D. 21/11 Shee 146.8		1:100000	Locality: Elevation: Rainfall: Runoff: Drainage:		No Data 533 Slow Imperfectly drained				
<u>Geology</u> ExposureType: Geol. Ref.:	Soil µ No D			Conf. Sub. Substrate I			No Dat Auger b	a poring, 4 m deep,C	Clay	
Land Form Rel/Slope Class	s: Gent 3%	tly undulating pla	ains <9m 1-	Pattern Ty	pe:	Plain				
Morph. Type: Elem. Type: Slope:	No D Plair 0 %			Relief: Slope Cate Aspect:	egory:	No Data No Data No Data				
Surface Soil C Erosion: Soil Classifica		on (dry): Se	lf-mulching, S	urface crust						
Soil Classification       Mapping Unit:       N/A         Australian Soil Classification:       Principal Profile Form:       Ug5.34         Epicalcareous-Endoacidic Self-Mulching Brown Vertosol       Principal Profile Form:       Ug5.34         ASC Confidence:       Great Soil Group:       Brown clay         All necessary analytical data are available.       No effective disturbance other than grazing by hoofed animals       Vegetation:         Vegetation:       Low Strata - , , . *Species includes - Astrebla lappacea, Dichanthium sericeum       Tall Strata - Tussock grass, 6.01-12m, Closed or dense. *Species includes - None Recorded								ded		
Surface Coars	-	<u>ments:</u> 2-10%	%, fine gravel	y, 2-6mm, , S	Substrate	e material				
Profile Morph AB 0 - 0.1			nsistence; Ve	ry few (0 - 2 %				e, 2-5 mm, Granul - 2 mm), Nodules;		
B2 0.1 - 0.	D.46 m Dark brown (7.5YR3/3-Moist); ; Heavy clay; Strong grade of structure, 20-50 mm, Polyhedral; Strong grade of structure, 5-10 mm, Polyhedral; Dry; Strong consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 8 (pH meter); Diffuse change to -				- 2 %),					
B2 0.46 - 0.84 m Dark brown (7.5YR3/3-Moist); ; Heavy clay; Strong grade of structure, 50-100 mm, Lenticular; Strong grade of structure, 10-20 mm, Lenticular; Dry; Strong consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 7.9 (pH meter); Diffuse change to -						- 2 %),				
B2 0.84 - 1	<ul> <li>B2 0.84 - 1.22 m Red (2.5YR4/5-Moist); ; Heavy clay; 10-20 mm, Lenticular; Dry; Strong consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Gypseous, , Crystals; Field pH 7.3 (pH meter); Diffuse change to -</li> </ul>									
B2 1.22 - 1	.68 m		y clay; 5-10 r	nm, Lenticula	r; Dry; S	trong cons		nct; , 20-50% , 5-15 Few (2 - 10 %), G		
B2 1.68 - 2	2.21 m		eavy clay; 5-1	0 mm, Lenticu	ular; Mo	derately mo	oist; Firm	, 20-50% , 5-15mn n consistence; Ver e to -		
B2 2.21 - 2	2.67 m	• •	eavy clay; 5-1	0 mm, Lenticu				46, 20-50% , 5-15n n consistence; Fiel		
B2 2.67 - 3	3.12 m		-10 mm, Lent					0% , 5-15mm, Pro ce; Field pH 5.2 (pl		

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Agency Name:	CSIRO Di	ivision of Soils (C	LD)		

- B2 3.12 3.56 m Grey (10YR6/1-Dry); , 10R46, 20-50% , 5-15mm, Prominent; , 20-50% , 5-15mm, Prominent; Heavy clay; 5-10 mm, Lenticular; Moderately moist; Firm consistence; Field pH 5.2 (pH meter); Diffuse change to -
- B2 3.56 4.01 m Grey (10YR6/1-Dry); , 2.5YR36, 20-50% , 5-15mm, Prominent; , 20-50% , 5-15mm, Prominent; Heavy clay; 5-10 mm, Lenticular; Moderately moist; Firm consistence; Field pH 5.3 (pH meter);

## **Morphological Notes**

#### **Observation Notes**

0-10CM FRAGILE SURFACE CRUST5-7MM THICK OVER GRANULAR GRADING TO POLYHEDRAL STRUCTURE:

#### Site Notes

ELGIN DOWNS

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Project Code:	WQR	Site ID:	B490	Observation ID:	1
Agency Name:	<b>CSIRO</b> Division	of Soils (C	QLD)		

# Laboratory Test Results:

Depth	рН	1:5 EC	Ex: Ca	changeabl Mg	e Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	, a		N	Cmol				%
0 - 0.1 0.1 - 0.46	7.5H 8H	0.05B 0.24B	25.2K	14.9	1.34	3.26	5.6D			
0.46 - 0.84 0.84 - 1.22	7.9H 7.3H	0.67B 1.75B	23.3K	13.5	1.2	9	7D			
1.22 - 1.68 1.68 - 2.21 2.21 - 2.67	6.9H 5.7H 5.2H	2.14B 1.11B 1.08B	28.6K	13.1	1	10.2	0D			
2.67 - 3.12 3.12 - 3.56 3.56 - 4.01	5.2H 5.2H 5.3H	1.09B 1.11B 1.13B								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Pa GV	article CS	FS	Analysis Silt	s Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1 0.1 - 0.46	0.1C	0.6A 0.5A	3C 1C	0.013F	0.068B 0.058B			0	2C	19	14	66
0.46 - 0.84 0.84 - 1.22	0.1C		2C 5C		0.039B 0.022B	1		0	1C	18	14	68
1.22 - 1.68 1.68 - 2.21		0A	8C 10C	0.014F	0.019B 0.02B			0	0.5C	15	11	72
2.21 - 2.67 2.67 - 3.12		0A	10C 6C	0.024F	0.023B 0.023B							
3.12 - 3.56 3.56 - 4.01		0A	5C 5C	0.032F	0.023B 0.025B							

Depth	COLE	Gravimetric/Volumetric Water Contents					K sat	K unsat		
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m		g/g - m3/m3				mm/h	mm/h			

0 - 0.1 0.1 - 0.46 0.46 - 0.84 0.84 - 1.22 1.22 - 1.68 1.68 - 2.21 2.21 - 2.67 2.67 - 3.12 3.12 - 3.56 3.56 - 4.01

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# Observation ID: 1

## Laboratory Analyses Completed for this profile

15_NR_CA 15_NR_H 15_NR_K	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded Hydrogen Cation - meq per 100g of soil - Not recorded Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15_NR_MG	Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
15_NR_NA	Exch. basic cations (Na++) - meq per 100g of soil - Not recorded
19B_NR	Calcium Carbonate (CaCO3) - Not recorded
2A1	Air-dry moisture content
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
5_NR	Water soluble Chloride - Cl(%) - Not recordede
6A1	Organic carbon - Walkley and Black
7_NR	Total nitrogen (%) - Not recorded
9_NR	Available P (mg/kg) - Not recorded
9A_NR	Total element - P(%) - Not recorded
P10_GRAV	Gravel (%)
P10_NR_C	Clay (%) - Not recorded
P10 NR CS	Coarse sand (%) - Not recorded
P10 NR FS	Fine sand (%) - Not recorded
P10 NR Z	Silt (%) - Not recorded