Projec	ct Name: ct Code: cy Name:	Regional REG Site ID: CSIRO Division of Soils (C		Observation ID:	1			
	formation							
Desc. I	By:	G.G. Murtha	Locality:	3.8KM south of River:1.1KM so	Nightjar on highway north of Bohle			
Easting	ef.: ng/Long.: g/Lat.:	21/10/69 Sheet No. : 8259 1:100000 146.683333333333 -19.2833333333333	Elevation: Rainfall: Runoff: Drainage:	18 metres 1020 Moderately rapid Very poorly drai	d			
<u>Geolo</u> Exposi Geol. F	ureType:	Undisturbed soil core Qa		Conf. Sub. is Parent. Mat.: No Data Substrate Material: Auger boring, No Data				
Land Rel/Slo		Gently undulating plains <9m 1-3%	Pattern Type:	Alluvial plain				
Morph. Elem. 1 Slope:	Гуре:	No Data Plain <3 %	Relief: Slope Category: Aspect:	6 metres Very gently slop No Data	ed			
<u>Surfac</u>	ce Soil Co	ndition (dry): Hardsetting						
Erosic								
	lassificati							
		assification:		ping Unit: cipal Profile Form:	N/A DY3.43			
	confidence:	ernatric Grey Sodosol		it Soil Group:	Solodized solonetz			
		ytical data are available.						
Site D	isturbanc	e: No effective disturbance other	than grazing by hoo	fed animals				
Vegeta	ation:	Low Strata - Tussock grass, 0 Mid Strata - Tree, 3.01-6m, Iso						
		Tall Strata - Tree, 6.01-12m, V	/ery sparse. *Specie	s includes - Melale	uca viridiflora, Eucalyptus drepanophylla			
<u>Surfac</u>	ce Coarse	Fragments: No surface coarse	e fragments					
	Morphol							
A1A2	0 - 0.1 m	Greyish brown (10YR5/2-N consistence; 2-10%, mediu Irregular change to -			structure; Moist; Very weak coarse fragments; Abrupt,			
B21	0.1 - 0.2 r	Distinct; Heavy clay; Stron Angular blocky; Medium, (Pale brown (10YR6/3-Moist); , 10YR42, 10-20% , 0-5mm, Distinct; , 10YR58, 10-20% , 0-5mm, Distinct; Heavy clay; Strong grade of structure, Columnar; Strong grade of structure, 5-10 mm, Angular blocky; Medium, (5 - 10) mm crack; Moderately moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments;					
B21	 B21 0.2 - 0.3 m Pale brown (10YR6/3-Moist); , 10YR42, 10-20% , 0-5mm, Distinct; , 10YR58, 10-20% , 0-5mm, Distinct; Heavy clay; Strong grade of structure, Columnar; Strong grade of structure, 5-10 mm, Angular blocky; Medium, (5 - 10) mm crack; Moderately moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments; Gradual change to - 							
B22	0.3 - 0.48							
B22	0.48 - 0.6	blocky; Dry; Very firm con	Greyish brown (2.5Y5/2-Moist); ; Sandy medium clay; Strong grade of structure, 2-5 mm, Angular blocky; Dry; Very firm consistence; 2-10%, coarse gravelly, 20-60mm, rounded, Gravel, coarse fragments; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Concretions;					
BC	0.6 - 0.9 r	blocky; Dry; Very firm con	sistence; 2-10%, co	arse gravelly, 20-60	le of structure, 2-5 mm, Angular Dmm, rounded, Gravel, coarse oncretions;			
D	0.95 - 1.2	fragments; Many (20 - 50 %), Calcareous, Coarse (6 - 20 mm), Concretions; Greyish brown (2.5Y5/2-Moist); , 10YR43, 10-20% , 0-5mm, Distinct; , 10-20% , 0-5mm, Distinct; Heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Dry; Very strong consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules;						

Project Code: F	Regional REG Site ID: T109 Observation ID: 1 CSIRO Division of Soils (QLD)
D 1.2 - 1.5 m	Greyish brown (2.5Y5/2-Moist); , 10YR33; , 10YR82; Sandy medium clay; Massive grade of structure; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Very strong consistence; 20-50%, fine gravelly, 2-6mm, Quartz, coarse fragments;
D 1.5 - 1.9 m	Greyish brown (2.5Y5/2-Moist); , 10YR33; , 10YR82; Sandy medium clay (Light); Massive grade of structure; Dry; Firm consistence; 20-50%, fine gravelly, 2-6mm, Quartz, coarse fragments;
D 1.9 - 2.3 m	Greyish brown (2.5Y5/2-Moist); , 10YR33; , 10YR82; Sandy clay loam; Massive grade of structure; Diffuse change to -
2.3 - 3.4 m	Yellowish brown (10YR5/4-Moist); ; Sandy clay loam; Massive grade of structure; Weak consistence; Clear change to -
3.4 - 3.9 m	Grey (10YR6/1-Moist); , 10YR82, 2-10% ; , 10YR33, 2-10% ; Clayey sand; Massive grade of structure; Many (>5 per 100mm2) Fine (1-2mm) macropores, Very firm consistence; Abrupt, Irregular change to -
3.9 - 4.7 m	Light brownish grey (2.5Y6/2-Moist); , 10YR44, 10-20% , 5-15mm, Prominent; , 10YR54, 10-20% , 5-15mm, Prominent; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Very firm consistence; Gradual change to -
4.7 - 5.2 m	Light brownish grey (2.5Y6/2-Moist); , 10YR44, 10-20% , 5-15mm, Prominent; , 10YR54, 10-20% , 5-15mm, Prominent; Sandy medium clay; Strong grade of structure, 2-5 mm, Angular blocky; Firm consistence; 10-20%, fine gravelly, 2-6mm, Granite, coarse fragments; Few (2 - 10 %), Ferromanganiferous, , Soft segregations; Abrupt change to -
5.2 - 5.4 m	Pale brown (10YR6/3-Dry); ; Sand; Single grain grade of structure; Loose consistence; Abrupt change to -
5.4 - 5.8 m	Greyish brown (2.5Y5/2-Moist); , 10YR33; Sandy clay loam; Massive grade of structure; Firm consistence; Very few (0 - 2 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules; Gradual change to -
5.8 - 6 m	Light brownish grey (2.5Y6/2-Moist); , 10YR44; Sandy medium clay; Strong grade of structure, 2- 5 mm, Angular blocky; Very firm consistence; 2-10%, coarse gravelly, 20-60mm, Gravel, coarse fragments;
Morphological Not	es

Observation Notes A2 2-10CM (10YR82 D) SANDY MA DRY LOOSE:A2 MATERIAL DOWN BETWEEN COL'S Site Notes BOHLE RIVER

Project Name:	Regional				
Project Code:	REG	Site ID:	T109	Observation ID:	1
Agency Name:	CSIRO Divisio	n of Soils (0	QLD)		

Laboratory Test Results:

Depth	рН	1:5 EC	Ex	kchangeable	Cations		Exchangeable	CEC	ECEC	ESP
m		C dS/m	a	Mg	к	Na Cmol	Acidity (+)/kg			%
0 - 0.1	6.6A	0.023A	0.2B	0.5	0.05	0.23				
0.1 - 0.2	6.3A	0.172A	2.1B	4.4	0.11	4.2		12.1C		34.71
0.2 - 0.3	6.5A	0.279A								
0.3 - 0.48	7.4A	0.392A	1.2B	4.2	0.08	7.6		9.9C		76.77
0.48 - 0.6	9.6A	0.8A								
0.6 - 0.95	9.6A	0.717A								
0.95 - 1.2	9.4A	0.898A	2.5B	5.5	0.15	16.2		15.9C		101.89
1.2 - 1.5	9.2A	0.494A								

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk				Analysis	
m	%	С %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	CS	FS %	Silt	Clay
0 - 0.1		0.13D	<2A 5B	0.003A	0.01A	1.3A		14	48A	44	5	3
0.1 - 0.2		0.44D	3B	0.006A	0.05A	0.9A		6	22A	26	3	48
0.2 - 0.3												
0.3 - 0.48	<0.1A			0.005A		1.3A		6	25A	36	8	35
0.48 - 0.6	1.9A											
0.6 - 0.95	0.4A											
0.95 - 1.2	<0.1A							2	33A	23	27	21
1.2 - 1.5	<0.1A											

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	3			mm/h	mm/h

0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.48 0.48 - 0.6 0.6 - 0.95 0.95 - 1.2 1.2 - 1.5

Project Name:	Regional		
Project Code:	REG	Site ID:	T109
Agency Name:	CSIRO Divisio	on of Soils (C	QLD)

Observation ID: 1

Laboratory Analyses Completed for this profile

10.1.1	
10A1	Total sulfur - X-ray fluorescence
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
17A1	Total potassium - X-ray fluorescence
19A1	Carbonates - rapid titration
2A1	Air-dry moisture content
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9A1	Total phosphorus - X-ray fluorescence
9B_9C	Available P (mg/kg) - Bicarbonate P - 0.5M NaHCO3 extractable
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	Fine sand (%) - Coventry and Fett pipette method
P10_CF_Z	Silt (%) - Coventry and Fett pipette method
P10_GRAV	Gravel (%)
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction