Cooloola **Project Name:**

Project Code: Cooloola Site ID: **B868** Observation ID: 1

Agency Name: **CSIRO** Division of Soils (QLD)

Site Information

C.H. Thompson Locality:

Desc. By: Date Desc.: Elevation: 28/07/75 20 metres Sheet No.: 9545-IV Map Ref.: 1:50000 Rainfall: No Data Northing/Long.: 153.0263207 Runoff: No Data

Imperfectly drained Easting/Lat.: -26.02397455 Drainage:

Geology

ExposureType: No Data Conf. Sub. is Parent. Mat.: No Data Geol. Ref.: Substrate Material: No Data No Data

Land Form

Rel/Slope Class: No Data Pattern Type: Flood plain Morph. Type: Elem. Type: No Data Relief: No Data

Slope Category: Very gently sloped Plain

% Aspect: No Data

Surface Soil Condition (dry):

Erosion:

Slope:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Podosol Principal Profile Form: Uc2.36 **ASC Confidence: Great Soil Group:** Humus podzol

Confidence level not specified

Site Disturbance:

Low Strata - , 3.01-6m, . *Species includes - Banksia aemula, Eucalyptus seeana, Melaleuca quinquenervia Vegetation:

Surface Coarse Fragments:

Profile	worphology	
A11	0 - 0.01 m	Grey (10YR6/1-Moist); Light grey (10YR7/1-Moist); ; Sand; Single grain grade of structure; Loose consistence; Field pH 5.5 (Raupach);
A12	0.01 - 0.1 m	Very dark grey (10YR3/1-Moist); ; Sand; Single grain grade of structure; Massive grade of structure; Weak consistence; Few
A12	0.1 - 0.2 m	;
A12	0.2 - 0.3 m	;
A13	0.3 - 0.45 m	Dark grey (10YR4/1-Moist); , 10YR51; , 10YR52; Sand; Single grain grade of structure; Massive grade of structure; Weak consistence;
A13	0.45 - 0.6 m	Light grey (10YR7/1-Moist); , 10YR52; Sand; Single grain grade of structure; Massive grade of structure; Very weak consistence;
A14	0.6 - 0.7 m	(10YR9/1-Moist); ; Sand; Single grain grade of structure; Massive grade of structure; Very weak consistence;
B21	0.7 - 0.75 m	Black (10YR2/1-Moist); ; Sand; Single grain grade of structure; Massive grade of structure; Strong consistence;
B22	0.75 - 0.8 m	Dark yellowish brown (10YR3/5-Moist); Dark yellowish brown (10YR4/5-Moist); , 10YR21; Single grain grade of structure; Massive grade of structure; Strong consistence;
B23	0.8 - 0.9 m	Dark yellowish brown (10YR4/6-Moist); , 10YR32; Single grain grade of structure; Massive grade of structure; Very strong consistence;
B23	0.9 - 1.2 m	Very dark greyish brown (10YR3/2-Moist); , 10YR46; Single grain grade of structure; Massive grade of structure; Firm consistence;
B23	1.2 - 1.4 m	Light brownish grey (10YR6/2-Moist); , N60; Fine sandy clay loam; Single grain grade of structure; Massive grade of structure; Firm consistence;
B23	1.4 - 1.5 m	Pale brown (10YR6/3-Moist); , 2.5Y72; , 10YR42; Fine sandy clay loam; Single grain grade of structure; Massive grade of structure; Firm consistence;

Projec	t Name: t Code: y Name:	Cooloola Cooloola Site ID: B868 Observation ID: 1 CSIRO Division of Soils (QLD)
B23	1.5 - 1.7 m	Pale brown (10YR6/3-Moist); , 2.5Y72; , 10YR42; Single grain grade of structure; Massive grade of structure; Firm consistence;
B23	1.7 - 1.8 m	Light brownish grey (10YR6/2-Moist); , 10YR42; Fine sandy clay; Single grain grade of structure; Massive grade of structure;
B1WT	1.8 - 1.9 m	Black (10YR2/1-Moist); , 10YR62; Fine sandy clay loam; Single grain grade of structure; Massive grade of structure; Very firm consistence;
B1WT	1.8 - 1.9 m	Black (10YR2/1-Moist); , 10YR62; Fine sandy clay loam; Single grain grade of structure; Massive grade of structure; Very firm consistence;
B2WT	1.9 - 2.1 m	Black (10YR2/1-Moist); , 10YR72; Sandy loam; Single grain grade of structure; Massive grade of structure; Very firm consistence;
B2WT	2.1 - 2.4 m	Black (10YR2/1-Moist); , 10YR72;
B2WT	2.4 - 2.55 n	Black (10YR2/1-Moist); , 10YR72;
С	2.55 - 2.7 n	Dark greyish brown (10YR4/2-Moist); ; Sand; Single grain grade of structure; Weak grade of structure;
С	2.7 - 5 m	Dark greyish brown (10YR4/2-Moist); ; Sand; Single grain grade of structure; Weak grade of structure;
D	5 - 5.3 m	Light grey (5Y7/1-Moist); , 10YR42; Medium clay; Single grain grade of structure; Massive grade of structure; Field pH 5.5 (Raupach);

Morphological Notes

A11	Rain bashed sand.
A12	Diffuse organic matter, some roots.
A13	Diffuse organic matter.
A13	Saturated sand
A14	Saturated sand.
B21	Organic hardpan.
B22	Fe + hummate hardpan.
B23	Fe - hummate hardpan.
B23	Fe - hummate pan.
B23	Wet sticky plastic clay.
B2WT	Definite sedimentary bedding into which hummate has moved with water table.
С	Medium grained sand.
С	Easing drilled through with plug bit inserted.

Observation Notes

Sample taken from Gemco 15cm core. Parent material: Sandy alluvium from Mesozoic quartzose and feldspathic sandstone. Landform: Very gently sloping plain - ancient flood plain of Teewa Creek. Veg: Very open woodland

Site Notes

Included in indigenous hardwood forest reserve.

Cooloola

B868 Observation ID: 1

Project Name: Project Code: Agency Name: Cooloola Site ID: B86 CSIRO Division of Soils (QLD)

Laboratory Test Results:

<u>Laboratory</u>	1621 1/6	esuits:									
Depth	рН	1:5 EC	Excl	nangeable	e Cations		Exchangeable	CEC	ECEC		ESP
			Ca I	Иg	K	Na	Acidity				
m		dS/m				Cmol (-	+)/kg				%
0 004											
0 - 0.01	5 011	0.000	4.017	0.0	0.4	0.4	0.00		٥.		
0 - 0.1	5.3H	<0.02B	1.2K	0.3	0.1	0.1	0.3D		2F		
0.1 - 0.2 0.2 - 0.3	5H	-0.02P									
0.2 - 0.3	5.3H	<0.02B <0.02B									
0.45 - 0.6	5.511	<0.02B									
0.6 - 0.7	5.9H	<0.02B									
0.7 - 0.75	4.7H	0.05B	0.6K	1.3	<0.1	0.2	<0.1D		1.7F		
0.75 - 0.8	4.7H	0.05B									
0.8 - 0.9	5H	0.03B	0.2K	0.2	<0.1	0.1	1.6D		2F		
0.9 - 1.2	5H	0.03B									
1.2 - 1.4											
1.4 - 1.5											
1.5 - 1.7	5.2H	0.02B									
1.7 - 1.8											
1.8 - 1.9	4.9H	0.03B									
1.9 - 2.1	E 41.1	0.060									
2.1 - 2.4 2.4 - 2.55	5.4H	0.06B									
2.55 - 2.7	6.1H	0.02B									
2.7 - 5	0.111	0.026									
5 - 5.3											
Donth	0-003	Ormania	Avail	Tatal	Tatal	Tata	d Bulls	Dortiolo	C:	Analysi	_
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Tota K	ıl Bulk Density	Particle GV CS	Size FS	Analysi Silt	
m	%	%	mg/kg	%	%	%	Mg/m3	0v 00	%	Sint	Clay
			5 5				3				
0 0 04											
0 - 0.01											
0 - 0.01 0 - 0.1		1.34E	6B		0.05	5B		94		2	2
		1.34E	6B		0.05	БВ		941		2	2
0 - 0.1		1.34E 0.41E	6B 3B		0.05 0.01			94		2	2
0 - 0.1 0.1 - 0.2						6B		941		2	2
0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.45 0.45 - 0.6		0.41E 0.11E	3B 4B		0.01 0.00	6B 6B					
0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.45 0.45 - 0.6 0.6 - 0.7		0.41E 0.11E 0.01E	3B 4B 5B		0.01 0.00 0.00	6B 6B 1B		97		3	1
0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.45 0.45 - 0.6 0.6 - 0.7 0.7 - 0.75		0.41E 0.11E 0.01E 3.35E	3B 4B 5B 3B		0.01 0.00 0.00 0.06	6B 6B 1B 6B					
0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.45 0.45 - 0.6 0.6 - 0.7 0.7 - 0.75 0.75 - 0.8		0.41E 0.11E 0.01E 3.35E 2.24E	3B 4B 5B 3B 17B		0.01 0.00 0.00 0.06 0.04	6B 6B 1B 6B IB		97		3	1
0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.45 0.45 - 0.6 0.6 - 0.7 0.7 - 0.75 0.75 - 0.8 0.8 - 0.9		0.41E 0.11E 0.01E 3.35E 2.24E 2.18E	3B 4B 5B 3B 17B 7B		0.01 0.00 0.00 0.06 0.04 0.03	6B 6B 1B 6B 1B		97		3	1
0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.45 0.45 - 0.6 0.6 - 0.7 0.7 - 0.75 0.75 - 0.8 0.8 - 0.9 0.9 - 1.2		0.41E 0.11E 0.01E 3.35E 2.24E	3B 4B 5B 3B 17B		0.01 0.00 0.00 0.06 0.04	6B 6B 1B 6B 1B		97		3	1
0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.45 0.45 - 0.6 0.6 - 0.7 0.7 - 0.75 0.75 - 0.8 0.8 - 0.9 0.9 - 1.2 1.2 - 1.4		0.41E 0.11E 0.01E 3.35E 2.24E 2.18E	3B 4B 5B 3B 17B 7B		0.01 0.00 0.00 0.06 0.04 0.03	6B 6B 1B 6B 1B		97		3	1
0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.45 0.45 - 0.6 0.6 - 0.7 0.7 - 0.75 0.75 - 0.8 0.8 - 0.9 0.9 - 1.2 1.2 - 1.4 1.4 - 1.5		0.41E 0.11E 0.01E 3.35E 2.24E 2.18E 1.78E	3B 4B 5B 3B 17B 7B 4B		0.01 0.00 0.00 0.06 0.04 0.03 0.03	6B 6B 1B 6B 1B 8B 3B		97		3	1
0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.45 0.45 - 0.6 0.6 - 0.7 0.7 - 0.75 0.75 - 0.8 0.8 - 0.9 0.9 - 1.2 1.2 - 1.4 1.4 - 1.5 1.5 - 1.7		0.41E 0.11E 0.01E 3.35E 2.24E 2.18E	3B 4B 5B 3B 17B 7B		0.01 0.00 0.00 0.06 0.04 0.03	6B 6B 1B 6B 1B 8B 3B		97		3	1
0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.45 0.45 - 0.6 0.6 - 0.7 0.7 - 0.75 0.75 - 0.8 0.8 - 0.9 0.9 - 1.2 1.2 - 1.4 1.4 - 1.5 1.5 - 1.7 1.7 - 1.8		0.41E 0.11E 0.01E 3.35E 2.24E 2.18E 1.78E	3B 4B 5B 3B 17B 7B 4B		0.01 0.00 0.00 0.06 0.02 0.03 0.03	6B 6B 1B 6B 9B 9B 3B		97		3	1
0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.45 0.45 - 0.6 0.6 - 0.7 0.7 - 0.75 0.75 - 0.8 0.8 - 0.9 0.9 - 1.2 1.2 - 1.4 1.4 - 1.5 1.5 - 1.7		0.41E 0.11E 0.01E 3.35E 2.24E 2.18E 1.78E	3B 4B 5B 3B 17B 7B 4B		0.01 0.00 0.00 0.06 0.04 0.03 0.03	6B 6B 1B 6B 9B 9B 3B		97		3	1
0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.45 0.45 - 0.6 0.6 - 0.7 0.7 - 0.75 0.75 - 0.8 0.8 - 0.9 0.9 - 1.2 1.2 - 1.4 1.4 - 1.5 1.5 - 1.7 1.7 - 1.8 1.8 - 1.9		0.41E 0.11E 0.01E 3.35E 2.24E 2.18E 1.78E	3B 4B 5B 3B 17B 7B 4B		0.01 0.00 0.00 0.06 0.02 0.03 0.03	6B 6B 1B 6B 9B 8B 3B		97		3	1
0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.45 0.45 - 0.6 0.6 - 0.7 0.7 - 0.75 0.75 - 0.8 0.8 - 0.9 0.9 - 1.2 1.2 - 1.4 1.4 - 1.5 1.5 - 1.7 1.7 - 1.8 1.8 - 1.9 1.9 - 2.1 2.1 - 2.4 2.4 - 2.55		0.41E 0.11E 0.01E 3.35E 2.24E 2.18E 1.78E 0.27E 1.04E 2.34E	3B 4B 5B 3B 17B 7B 4B 3B 6B		0.01 0.00 0.00 0.02 0.03 0.03 0.00 0.01	6B 6B 1B 8B 8B 3B		97		3	1
0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.45 0.45 - 0.6 0.6 - 0.7 0.7 - 0.75 0.75 - 0.8 0.8 - 0.9 0.9 - 1.2 1.2 - 1.4 1.4 - 1.5 1.5 - 1.7 1.7 - 1.8 1.8 - 1.9 1.9 - 2.1 2.1 - 2.4 2.4 - 2.55 2.55 - 2.7		0.41E 0.11E 0.01E 3.35E 2.24E 2.18E 1.78E 0.27E	3B 4B 5B 3B 17B 7B 4B 3B		0.01 0.00 0.00 0.06 0.02 0.03 0.03	6B 6B 1B 8B 8B 3B		97		3	1
0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.45 0.45 - 0.6 0.6 - 0.7 0.7 - 0.75 0.75 - 0.8 0.8 - 0.9 0.9 - 1.2 1.2 - 1.4 1.4 - 1.5 1.5 - 1.7 1.7 - 1.8 1.8 - 1.9 1.9 - 2.1 2.1 - 2.4 2.4 - 2.55 2.55 - 2.7 2.7 - 5		0.41E 0.11E 0.01E 3.35E 2.24E 2.18E 1.78E 0.27E 1.04E 2.34E	3B 4B 5B 3B 17B 7B 4B 3B 6B		0.01 0.00 0.00 0.02 0.03 0.03 0.00 0.01	6B 6B 1B 8B 8B 3B		97		3	1
0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.45 0.45 - 0.6 0.6 - 0.7 0.7 - 0.75 0.75 - 0.8 0.8 - 0.9 0.9 - 1.2 1.2 - 1.4 1.4 - 1.5 1.5 - 1.7 1.7 - 1.8 1.8 - 1.9 1.9 - 2.1 2.1 - 2.4 2.4 - 2.55 2.55 - 2.7		0.41E 0.11E 0.01E 3.35E 2.24E 2.18E 1.78E 0.27E 1.04E 2.34E	3B 4B 5B 3B 17B 7B 4B 3B 6B		0.01 0.00 0.00 0.02 0.03 0.03 0.00 0.01	6B 6B 1B 8B 8B 3B		97		3	1
0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.45 0.45 - 0.6 0.6 - 0.7 0.7 - 0.75 0.75 - 0.8 0.8 - 0.9 0.9 - 1.2 1.2 - 1.4 1.4 - 1.5 1.5 - 1.7 1.7 - 1.8 1.8 - 1.9 1.9 - 2.1 2.1 - 2.4 2.4 - 2.55 2.55 - 2.7 2.7 - 5	COLE	0.41E 0.11E 0.01E 3.35E 2.24E 2.18E 1.78E 0.27E 1.04E 2.34E	3B 4B 5B 3B 17B 7B 4B 3B 6B 6B		0.01 0.00 0.00 0.02 0.03 0.03 0.00 0.01	6B 6B 1B 8B 8B 3B 5B 5B		97 84		3	1 4

Project Name: Cooloola

Project Code: Agency Name: B868 Observation ID: 1 Cooloola Site ID:

CSIRO Division of Soils (QLD)

g/g - m3/m3 mm/h m mm/h

0 - 0.01

0 - 0.1 0.1 - 0.2 0.2 - 0.3

0.3 - 0.45 0.45 - 0.6 0.6 - 0.7 0.7 - 0.75 0.75 - 0.8 0.8 - 0.9 0.9 - 1.2 1.2 - 1.4 1.4 - 1.5 1.5 - 1.7 1.7 - 1.8 1.8 - 1.9 1.9 - 2.1 2.1 - 2.4 2.4 - 2.55 2.55 - 2.7 2.7 - 5 5 - 5.3

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Laboratory Analyses Completed for this profile

Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded Hydrogen Cation - meq per 100g of soil - Not recorded 15_NR_CA

15_NR_H

15_NR_K Exch. basic cations (K++) - med per 100g of soil - Not recorded Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded Exch. basic cations (Na++) - meq per 100g of soil - Not recorded 15_NR_MG 15_NR_NA

15J1 Effective CEC

2A1 Air-dry moisture content

3_NR Electrical conductivity or soluble salts - Not recorded

pH of soil - Not recorded 4_NR

Water soluble Chloride - Cl(%) - Not recordede 5_NR

Organic carbon (%) - Not recorded Total nitrogen (%) - Not recorded 6Z 7_NR Total organic carbon/total nitrogen ratio 8A1

9G_BSES Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)

P10_NR_C P10_NR_S Clay (%) - Not recorded Sand (%) - Not recorded P10_NR_Z Silt (%) - Not recorded