

22 Dalmore Drive Scoresby 3179 Tel. 03 8756 8183 Fax. 03 9763 1862





## **ALGAL REPORT**

CLIENT:	Australian Laboratory	Australian Laboratory Services Pty Ltd SA		
LABORATORY NO./BATCH NO.:	7684064	22-64963		
LOCALITY:	EM2216764-011			
SITE:	Tilley U/S Morella			
SAMPLE:	Surface			
DATE SAMPLED :	31/08/2022			
DATE ANALYSED :	7/09/2022			
SAMPLED BY:	Sample analysed as i	received		

**COMMENTS: +** A diverse algal community was observed, but current combined levels are insufficient to influence water quality.

Sedgewick-Rafter Vol.(ml) 1.01 Concentration 1 Magnification Fields	Toxigenic (T) or Potentially toxic (P)	- 200x 20	- 100x 500	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
BACILLARIOPHYCEAE						
Chaetoceros		1	0	49	200	0.00984
Cocconeis		1	0	49	450	0.02213
Entomoneis		0	5	10	1000	0.00984
Naviculales		1	0	49	1400	0.06886
Nitzschia		1	0	49	400	0.01967
Nitzschia closterium		0	1	2	40	0.00008
Pennales		1	0	49	300	0.01476
Pennales (small <20um)		2	0	98	251	0.02469
CHLOROPHYCEAE	'		1			
Chlamydomonads		5	0	246	250	0.06148
Chlorococcoids (<10um)		13	0	639	60	0.03836
Monoraphidium (small)		37	0	1820	16	0.02912
Oocystis (small)		5	0	246	100	0.02459
Tetraedron		3	0	148	150	0.02213
CHRYSOPHYCEAE						
Mallomonas		0	1	2	6655	0.01309
CRYPTOPHYCEAE						
Cryptomonads		3	0	148	320	0.04722
CYANOPHYCEAE						
Limnothrix/Geitlerinema/Anagnostidinema	Р	8	0	393	17.5	0.00689
Planktolyngbya		28	0	1377	3.8	0.00523
Pseudanabaena		0	6	12	12.5	0.00015
Synechococcales small (iauv <20)		25	0	1230	5.25	0.00646
DINOPHYCEAE						
Gymnodiniales		1	0	49	2000	0.09837

ANALYST: Karen Simonsen (signatory) **Biologist** 

REVIEWED: Lauren Minett (signatory)

Biologist

DATE: 08/09/2022

METHOD NO.: MB010/MW024VCA



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Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0166 1 : 1	Toxigenic (T) or Potentially toxic (P)	- 200x 20	- 100x 500	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
Peridiniales			3	0	148	5000	0.73775
Prorocentrum			0	4	8	3000	0.02361
EUGLENOPHYCEAE							
Phacus			0	2	4	6000	0.02361
OTHER PHYTOPLANKTON							
Prasinophytes			0	4	8	100	0.00079
т	TOT OTAL TOXIGE	TAL BGA NIC BGA			3012 0		0.01872 0.00000

TOTAL BGA	3012	0.01872
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	393	0.00689
TOTAL ALGAE	6833	1.30870

<sup>+</sup> The comments are discretionary and are for the purpose of helping to understand WQ implications. The comments are not accredited by NATA.

The biovolume values reported are those derived from documented information, including scientific literature. These are average values and not those measured on individual samples.

A Certificate of analysis will follow, linked by the above batch number. Independent algal reports are forwarded to clients expeditiously to facilitate operational decision making.

\* P's and T's denote those cyanobacteria/blue-green algae (BGA) associated with toxin production in Australian waters. Overseas studies have shown other cyanobacteria to produce toxins. All contain lipopolysaccharides (LPS) in their cell wall and many have been found to produce β-N-methylamino-L-alanine (BMAA) and its analogues. Therefore all cyanobacteria could be considered to pose a level of risk.

ANALYST: Karen Simonsen (signatory) REVIEWED: Lauren Minett (signatory) DATE: 08/09/2022 **Biologist Biologist** 

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