

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





ALGAL REPORT

CLIENT:	Australian Laboratory Services Pty Ltd SA					
LABORATORY NO./BATCH NO.:	7281158 21-59669					
LOCALITY:	EM2125413-017					
SITE:	DS Tauwitchere					
SAMPLE:	Surface					
DATE SAMPLED :	13/12/2021					
DATE ANALYSED :	20/12/2021					
SAMPLED BY:	Sample analysed as received					

COMMENTS: + Excessive levels of small BGA will impair water quality and may pose a health risk.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0011 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)	
BACILLARIOPHYCEAE								
Centrales			4	0	200	200	0.03996	
Naviculales			1	0	50	1400	0.06992	
Nitzschia			1	0	50	400	0.01998	
Pennales			4	0	200	300	0.05993	
CHLOROPHYCEAE								
Ankistrodesmus			8	0	400	132	0.05274	
Botryococcus			0	420	839	98	0.08223	
Chlorococcoids (<10um)			52	0	2597	60	0.15583	
Colonial green (cells)			62	0	3097	100	0.30966	
Crucigenia			320	0	15982	30	0.47947	
Dictyosphaerium			24	0	1199	20	0.02397	
Didymocystis			16	0	799	41	0.03276	
Dimorphococcus			10	0	499	20	0.00999	
Elakatothrix			1	0	50	45	0.00225	
Eremosphaera			0	2	4	700	0.00280	
Filamentous Green			31	0	1548	386	0.59764	
Lagerheimia			12	0	599	500	0.29967	
Monoraphidium (small)			40	0	1998	16	0.03196	
Monoraphidium (large)			1	0	50	400	0.01998	
Nephrocytium			2	0	100	200	0.01998	
Oocystis			156	0	7791	300	2.33743	
Pediastrum			4	0	200	60	0.01199	
Planctonema			300	0	14984	800	11.98681	
Scenedesmus			76	0	3796	250	0.94896	
Selenastrum			2	0	100	250	0.02497	

ANALYST: Kirsten Mudie (signatory) **Biologist**

REVIEWED: Adam Deliyiannis (signatory) Biologist

DATE: **22/12/2021**

METHOD NO.: MB010/MW024VCA



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Sedgewick-Rafter Vol.(ml) 1.00 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)
Tetraedron		1	0	50	150	0.00749
Tetrastrum		48	0	2397	40	0.09589
CRYPTOPHYCEAE						
Cryptomonads		1	0	50	320	0.01598
CYANOPHYCEAE						
Chrysosporum bergii	Т	0	12	24	85	0.00204
Cuspidothrix issatschenkoi		0	209	418	57	0.02380
Limnolyngbya (Planktolyngbya circumcreta)		2072	0	103486	4.9	0.50708
Planktolyngbya		2412	0	120467	3.8	0.45778
Synechococcales small (iauv <20)		2770	0	138348	5.25	0.72633
TOTAL BGA		362743				1.71702
TOTAL TOXIGENIC BGA		24				0.00204
TOTAL POTENTIALLY TOXIC BGA		0				0.00000
TOTAL ALGAE		422372				19.45728

⁺ 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: Kirsten Mudie (signatory) REVIEWED: Adam Deliyiannis (signatory) DATE: 22/12/2021 Biologist **Biologist**

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