

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.:	7171288 21-46438					
LOCALITY:	EM2119079-002					
SITE:	US Tauwitchere					
SAMPLE:	Surface					
DATE SAMPLED :	23/09/2021					
DATE ANALYSED :	27/09/2021					
SAMPLED BY:	Sample analysed as received					

COMMENTS: + A diverse algal community was observed with low biovolume BGA present in excessive levels. Water quality is likely to be impaired.

1 : 1	(T) or Potentially toxic (P)	- 200x 20	- 100x 500	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
		20	0	995	200	0.19908
		0	5	10	300	0.00299
		0	45	90	98	0.00878
		248	0	12343	60	0.74059
		3	0	149	70	0.01045
		1	0	50	4130	0.20555
		10	0	498	100	0.04977
		432	0	21501	30	0.64503
		80	0	3982	20	0.07963
		16	0	796	41	0.03265
		28	0	1394	20	0.02787
		0	2	4	700	0.00279
		12	0	597	500	0.29863
		64	0	3185	900	2.86681
		4	0	199	200	0.03982
		360	0	17918	300	5.37527
		10	0	498	60	0.02986
		540	0	26876	800	21.50109
		76	0	3783	250	0.94565
		0	2	4	550	0.00219
		0	5	10	2000	0.01991
		8	0	398	150	0.05973
		48	0	2389	40	0.09556
			* 20 0 0 248 3 1 10 432 80 16 28 0 12 64 4 360 10 540 76 0 0 8	* 20 0 0 45 248 0 3 0 10 0 432 0 80 0 16 0 28 0 0 2 12 0 64 0 4 0 360 0 10 0 540 0 76 0 0 5 8 0	20	10

ANALYST: Kirsten Mudie (signatory)
Biologist

REVIEWED: *Adam Deliyiannis*Biologist

METHOD NO.: MB010/MW024VCA

DATE: 28/09/2021



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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)		
Other Chrysophyceae		2	0	100	350	0.03484		
CRYPTOPHYCEAE								
Cryptomonads		1	0	50	320	0.01593		
CYANOPHYCEAE								
Limnolyngbya (Planktolyngbya circumcreta)		4380	0	217997	4.9	1.06819		
Planktolyngbya		3790	0	188632	3.8	0.71680		
Pseudanabaena		22	0	1095	12.5	0.01369		
Synechococcales small (iauv <20)		14920	0	742584	5.25	3.89857		
EUGLENOPHYCEAE								
Euglena		0	1	2	7000	0.01394		
TOTAL BGA		1150308				5.69724		
TOTAL TOXIGENIC BGA		0				0.00000		
TOTAL POTENTIALLY TOXIC BGA		0				0.00000		
TOTAL ALGAE		1248129				39.00166		

⁺ 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 DATE: 28/09/2021
Biologist Biologist

METHOD NO.: MB010/MW024VCA Page 2 of 2