

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



DATE: 23/03/2021

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ALGAL REPORT

CLIENT:	Australian Laboratory Serv	Australian Laboratory Services Pty Ltd SA		
LABORATORY NO./BATCH NO.:	6933876	21-15798		
LOCALITY:	EM2104707_013			
SITE:	DS Tauwitchere			
SAMPLE:	Surface			
DATE SAMPLED :	18/03/2021			
DATE ANALYSED :	22/03/2021			
SAMPLED BY:	Sample analysed as recei	ved		

COMMENTS: + A highly diverse algal community was observed with excessive levels of low biovolume BGA noted. Water quality will be impaired and health concerns may be warranted.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0018 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			12	0	599	200	0.11978
Nitzschia			2	0	100	400	0.03993
Pennales			4	0	200	300	0.05989
CHLOROPHYCEAE							
Ankistrodesmus			18	0	898	132	0.11859
Botryococcus			0	60	120	98	0.01174
Chlorococcoids (<10um)			32	0	1597	60	0.09583
Colonial green (cells)			12	0	599	100	0.05989
Crucigenia			56	0	2795	30	0.08385
Dictyosphaerium			50	0	2496	20	0.04991
Didymocystis			2	0	100	41	0.00409
Dimorphococcus			12	0	599	20	0.01198
Elakatothrix			0	1	2	45	0.00009
Eremosphaera			2	0	100	700	0.06987
Golenkinia			10	0	499	400	0.19964
Hyaloraphidium			8	0	399	750	0.29946
Lagerheimia			28	0	1397	500	0.69874
Monoraphidium			0	1	2	900	0.00180
Oocystis			80	0	3993	300	1.19784
Pediastrum			8	0	399	60	0.02396
Planctonema			1510	0	75364	800	60.29148
Scenedesmus			8	0	399	250	0.09982
Selenastrum			36	0	1797	250	0.44919
Tetraedron			10	0	499	150	0.07487
Tetrastrum			96	0	4791	40	0.19166

ANALYST: Kirsten Mudie (signatory)
Biologist

REVIEWED: Adam Deliyiannis
Biologist

METHOD NO.: MB010/MW024VCA



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Sedgewick-Rafter Vol.(ml) 1.001 Concentration 1: Magnification Fields		- 200x 20	- 100x 500	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)	
CRYPTOPHYCEAE	CRYPTOPHYCEAE						
Cryptomonads		1	0	50	320	0.01597	
CYANOPHYCEAE							
Aphanizomenonaceae family - straight	Р	39	0	1946	67	0.13042	
Cuspidothrix issatschenkoi		228	0	11380	57	0.64863	
Limnolyngbya (Planktolyngbya circumcreta)		2960	0	147734	4.9	0.72390	
Planktolyngbya		9200	0	459173	3.8	1.74486	
Raphidiopsis raciborskii	Т	19	0	948	42	0.03983	
Romeria		4	0	200	31	0.00619	
Synechococcales small (iauv <20)		20340	0	1015173	5.25	5.32966	
DINOPHYCEAE							
Gymnodiniales (small)		1	0	50	500	0.02496	
EUGLENOPHYCEAE							
Euglena		1	0	50	7000	0.34937	
OTHER PHYTOPLANKTON							
Other small flagellates		6	0	299	80	0.02396	
TOTAL BGA		1636554			8.62348		
TOTAL TOXIGENIC BGA		948			0.03983		
TOTAL POTENTIALLY	TOXIC BGA			1946		0.13042	
тот	AL ALGAE			1736747		73.29163	

⁺ 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.

ANALYST: Kirsten Mudie (signatory) REVIEWED: Adam Deliyiannis DATE: 23/03/2021
Biologist Biologist

METHOD NO.: MB010/MW024VCA Page 2 of 2

^{*} 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.