

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.:	7609391 22-60564					
LOCALITY:	EM2215131-001					
SITE:	US Tauwitchere					
SAMPLE:	Surface					
DATE SAMPLED :	8/08/2022					
DATE ANALYSED :	12/08/2022					
SAMPLED BY:	Sample analysed as received					

COMMENTS: + A highly diverse algal community was observed, but current combined levels are unlikely to impact water quality.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0238 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							
Asterionellopsis			0	4	8	500	0.00391
Aulacoseira			129	0	6300	2860	18.01817
Centrales			0	4	8	200	0.00156
Centrales - (5-10um)			6	0	293	80	0.02344
Fragilariaceae			2	0	98	500	0.04884
Nitzschia			1	0	49	400	0.01954
Pennales (small <20um)			24	0	1172	251	0.29420
CHLOROPHYCEAE							
Actinastrum			0	8	16	60	0.00094
Ankistrodesmus			0	4	8	132	0.00103
Botryococcus			0	30	59	98	0.00574
Chlamydomonads			1	0	49	250	0.01221
Chlorococcoids (<10um)			92	0	4493	60	0.26958
Colonial green (cells)			32	0	1563	100	0.15628
Crucigenia			80	0	3907	30	0.11721
Dictyosphaerium			8	0	391	20	0.00781
Didymocystis			8	0	391	41	0.01602
Monoraphidium (small)			74	0	3614	16	0.05782
Monoraphidium (large)			3	0	147	400	0.05861
Oocystis (small)			33	0	1612	100	0.16116
Pediastrum			1	0	49	60	0.00293
Planctonema			75	0	3663	800	2.93026
Scenedesmus			18	0	879	250	0.21977
Tetrastrum			40	0	1954	40	0.07814
CRYPTOPHYCEAE							

ANALYST: Karen Simonsen (signatory) REVIEWED: Adam Deliyiannis (signatory) DATE: 15/08/2022
Biologist Biologist

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Cryptomonads		25	0	1221	320	0.39070	
CYANOPHYCEAE							
Limnolyngbya		181	0	8840	4.9	0.04331	
Nostocales	Р	0	25	49	73.5	0.00359	
Oscillatoriales (iauv 1-100)	Р	0	198	387	60.8	0.02352	
Planktolyngbya		245	0	11965	3.8	0.04547	
Romeria		20	0	977	31	0.03028	
Synechococcales small (iauv <20)		94	0	4591	5.25	0.02410	
DINOPHYCEAE							
Gymnodiniales (small)		1	0	49	500	0.02442	
TOTAL BGA		26809				0.17027	
TOTAL TOXIGENIC BGA		0				0.00000	
TOTAL POTENTIALLY TOXIC BGA		436				0.02711	
TOTAL ALGAE		58802				23.09056	

⁺ 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.

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