

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.:	7328747 22-06265					
LOCALITY:	EM2201088-018					
SITE:	US Tauwitchere					
SAMPLE:	Surface					
DATE SAMPLED :	21/01/2022					
DATE ANALYSED :	1/02/2022					
SAMPLED BY:	Sample analysed as received					

COMMENTS: + A highly diverse and abundant algal community was observed. Water quality is likely to be impaired.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.024 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			410	0	20020	200	4.00391	
Naviculales			1	0	49	1400	0.06836	
Pennales			5	0	244	300	0.07324	
CHLOROPHYCEAE								
Botryococcus			0	120	234	98	0.02297	
Chlorococcoids (<10um)			45	0	2197	60	0.13184	
Closterium			0	3	6	4130	0.02420	
Colonial green (cells)			26	0	1270	100	0.12695	
Crucigenia			340	0	16602	30	0.49805	
Dictyosphaerium			180	0	8789	20	0.17578	
Elakatothrix			2	0	98	45	0.00439	
Eremosphaera			0	8	16	700	0.01094	
Lagerheimia			25	0	1221	500	0.61035	
Monoraphidium (small)			24	0	1172	16	0.01875	
Monoraphidium (large)			1	0	49	400	0.01953	
Oocystis			90	0	4395	300	1.31836	
Planctonema			84	0	4102	800	3.28125	
Scenedesmus			115	0	5615	250	1.40381	
Staurastrum			0	1	2	2000	0.00391	
Tetraedron			10	0	488	150	0.07324	
Tetrastrum			100	0	4883	40	0.19531	
CRYPTOPHYCEAE								
Cryptomonads			5	0	244	320	0.07813	
CYANOPHYCEAE								
Aphanizomenonaceae family - straight		Р	69	0	3369	67	0.22573	

ANALYST: Kirsten Mudie (signatory) REVIEWED: Adam Deliyiannis (signatory) DATE: 02/02/2022
Biologist Biologist

METHOD NO.: MB010/MW024VCA Page 1 of 2



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Cuspidothrix issatschenkoi		9	0	439	57	0.02505		
Limnolyngbya (Planktolyngbya circumcreta)		4040	0	197266	4.9	0.96660		
Microcystis	Р	0	18	35	74	0.00260		
Oscillatoriales (iauv 1-100)	Р	0	145	283	60.8	0.01722		
Planktolyngbya		6340	0	309570	3.8	1.17637		
Pseudanabaena		40	0	1953	12.5	0.02441		
Synechococcales small (iauv <20)		2788	0	136133	5.25	0.71470		
EUGLENOPHYCEAE								
Euglena		0	1	2	7000	0.01367		
TOTAL BGA		649048				3.15268		
TOTAL TOXIGENIC BGA		0				0.00000		
TOTAL POTENTIALLY TOXIC BGA		3687				0.24555		

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

TOTAL ALGAE

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

720746

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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METHOD NO.: MB010/MW024VCA Page 2 of 2