

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.:	6906824 21-12031				
LOCALITY:	EM2103113-013				
SITE:	DS Tauwitchere				
SAMPLE:	Surface				
DATE SAMPLED :	24/02/2021				
DATE ANALYSED :	1/03/2021				
SAMPLED BY:	Sample analysed as received				

COMMENTS: + A highly diverse community of algal taxa was observed. The presence of toxigenic taxa should be noted. Curret levels are likely to impair water quality.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0255 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			2	0	98	200	0.01950
Nitzschia			3	0	146	400	0.05851
Pennales			2	0	98	300	0.02925
Pennales (small <20um)			1	0	49	251	0.01224
CHLOROPHYCEAE							
Ankistrodesmus			4	0	195	132	0.02574
Chlorococcoids (<10um)			27	0	1316	60	0.07899
Closterium			0	6	12	4130	0.04833
Colonial green (cells)			48	0	2340	100	0.23403
Crucigenia			112	0	5461	30	0.16382
Dictyosphaerium			4	0	195	20	0.00390
Elakatothrix			3	0	146	45	0.00658
Golenkinia			4	0	195	400	0.07801
Hyaloraphidium			3	0	146	750	0.10970
Lagerheimia			5	0	244	500	0.12189
Oocystis			48	0	2340	300	0.70210
Pediastrum			8	0	390	60	0.02340
Planctonema			945	0	46075	800	36.86007
Scenedesmus			10	0	488	250	0.12189
Schroederia			1	0	49	550	0.02682
Selenastrum			5	0	244	250	0.06095
Staurastrum			1	0	49	2000	0.09751
Tetraedron			2	0	98	150	0.01463
Tetrastrum			8	0	390	40	0.01560
CYANOPHYCEAE		,					

ANALYST: Adam Deliyiannis
Biologist

REVIEWED: Kirsten Mudie (signatory)
Biologist

METHOD NO.: MB010/MW024VCA

DATE: **02/03/2021**



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Aphanizomenonaceae family - straight	Р	393	0	19161	67	1.28381
Cuspidothrix cf. issatschenkoi		24	0	1170	57	0.06670
Limnolyngbya (Planktolyngbya circumcreta)		1235	0	60215	4.9	0.29505
Planktolyngbya		3320	0	161872	3.8	0.61511
Raphidiopsis raciborskii	Т	90	0	4388	42	0.18430
Romeria		5	0	244	31	0.00756
Synechococcales small (iauv <20)		7080	0	345197	5.25	1.81229
DINOPHYCEAE						
Dinoflagellates		1	0	49	20000	0.97513
OTHER PHYTOPLANKTON						
Other small flagellates		7	0	341	80	0.02730
TOTAL BGA		592247				4.26482
TOTAL TOXIGENIC BGA TOTAL POTENTIALLY TOXIC BGA		4388 19161				0.18430
TOTAL POTENTIALLY TOXIC BGA		653401				1.28381 44.18073

⁺ 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: Adam Deliyiannis REVIEWED: Kirsten Mudie (signatory) DATE: 02/03/2021
Biologist Biologist

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