

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



DATE: 27/08/2021



ALGAL REPORT

CLIENT:	Australian Laboratory Services Pty Ltd SA					
LABORATORY NO./BATCH NO. :	7136725 21-41798					
LOCALITY:	EM2116912-003					
SITE:	DS Tauwitchere					
SAMPLE:	Surface					
DATE SAMPLED :	25/08/2021					
DATE ANALYSED :	27/08/2021					
SAMPLED BY:	Sample analysed as received					

COMMENTS: + A diverse community of algal taxa was observed. Elevated levels of debris/sediment was observed. Excessive levels of low biovolume BGA Synechococcales are likely to impact water quality.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0327 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	97	200	0.01937
Fragilariaceae			21	0	1017	500	0.50838
Naviculales			3	0	145	1400	0.20335
Pennales			0	1	2	300	0.00058
Pennales (small <20um)			6	0	291	251	0.07292
CHLOROPHYCEAE							
Ankistrodesmoideae			17	0	823	132	0.10865
Botryococcus			0	55	107	98	0.01044
Chlamydomonads			1	0	48	250	0.01210
Chlorococcoids (<10um)			38	0	1840	60	0.11039
Closterium			0	7	14	4130	0.05599
Crucigenia			240	0	11620	30	0.34860
Dictyosphaerium			40	0	1937	20	0.03873
Didymocystis			4	0	194	41	0.00794
Elakatothrix			1	0	48	45	0.00218
Eremosphaera			4	0	194	700	0.13557
Lagerheimia			11	0	533	500	0.26629
Monoraphidium			1	0	48	900	0.04358
Nephrocytium			8	0	387	200	0.07747
Oocystis			84	0	4067	300	1.22010
Pediastrum			11	0	533	60	0.03196
Planctonema			259	0	12540	800	10.03196
Scenedesmus			40	0	1937	250	0.48417
Selenastrum			2	0	97	250	0.02421
Tetraedron			4	0	194	150	0.02905

ANALYST: Karen Simonsen (signatory)
Biologist

REVIEWED: Adam Deliyiannis
Biologist

METHOD NO.: MB010/MW024VCA Page 1 of 2



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CRYPTOPHYCEAE							
Cryptomonads		4	0	194	320	0.06197	
CYANOPHYCEAE							
Limnolyngbya		4180	0	202382	4.9	0.99167	
Planktolyngbya		5600	0	271134	3.8	1.03031	
Romeria		12	0	581	31	0.01801	
Synechococcales small (iauv <20)		14600	0	706885	5.25	3.71115	
EUGLENOPHYCEAE							
Euglena		0	1	2	7000	0.01356	
TOTAL BGA		1180982				5.75114	
TOTAL TOXIGENIC BGA TOTAL POTENTIALLY TOXIC BGA		0				0.00000 0.00000	
TOTAL ALGAE		1219891				19.67062	

⁺ 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: Karen Simonsen (signatory) REVIEWED: Adam Deliyiannis DATE: 27/08/2021
Biologist Biologist

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