

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.:	7217252 21-52414			
LOCALITY:	EM2121437-018			
SITE:	Tauwitchere U/S			
SAMPLE:	Surface			
DATE SAMPLED :	26/10/2021			
DATE ANALYSED :	9/11/2021			
SAMPLED BY:	Sample analysed as received			

COMMENTS: + A diverse range of algal taxa was observed. Excessive levels of low biovolume BGA will impact water quality.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0303 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			1	0	49	200	0.00971
Nitzschia			1	0	49	400	0.01941
Pennales			5	0	243	300	0.07279
Pennales (small <20um)			1	0	49	251	0.01218
CHLOROPHYCEAE	CHLOROPHYCEAE						
Chlorococcoids (<10um)			21	0	1019	60	0.06115
Closterium			0	5	10	4130	0.04009
Coelastrum			8	0	388	80	0.03106
Crucigenia			204	0	9900	30	0.29700
Didymocystis			8	0	388	41	0.01592
Dimorphococcus			28	0	1359	20	0.02718
Eremosphaera			0	4	8	700	0.00544
Lagerheimia			5	0	243	500	0.12132
Monoraphidium			10	0	485	900	0.43677
Oocystis			93	0	4513	300	1.35397
Pediastrum			7	0	340	60	0.02038
Planctonema			865	0	41978	800	33.58245
Scenedesmus			24	0	1165	250	0.29118
CYANOPHYCEAE							
Limnolyngbya (Planktolyngbya circumcreta)			5920	0	287295	4.9	1.40775
Oscillatoriales (iauv 1-100)		Р	0	25	49	60.8	0.00295
Planktolyngbya			5500	0	266913	3.8	1.01427
Pseudanabaena			62	0	3009	12.5	0.03761
Synechococcales small (iauv <20)			7220	0	350383	5.25	1.83951
OTHER PHYTOPLANKTON				,			

ANALYST: Adam Deliyiannis Biologist

REVIEWED: Louise Ungemach (signatory)

Biologist

DATE: 10/11/2021

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COMMENTS: + A diverse range of algal taxa was observed. Excessive levels of low biovolume BGA will impact water quality.

Sedgewick-Rafter Vol.(ml) 1.03 Concentration 1 Magnification Fields	(T) or		- 100x 500	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
Raphidophytes		1	0	49	7000	0.33971

TOTAL BGA	907649	4.30209
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	49	0.00295
TOTAL ALGAE	969884	41.03978

⁺ 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: Adam Deliyiannis
Biologist

REVIEWED: Louise Ungemach (signatory)
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.