

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.:	7791222 22-70934				
LOCALITY:	EM2218950-001				
SITE:	US Tauwitchere				
SAMPLE:	Surface				
DATE SAMPLED :	28/09/2022				
DATE ANALYSED :	5/10/2022				
SAMPLED BY:	Sample analysed as received				

COMMENTS: + A diverse community of algal taxa were obsreved. Current levels are unlikely to impair water quality.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0237 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							
Aulacoseira			472	0	23054	2860	65.93338
Centrales			18	0	879	200	0.17583
Pennales			8	0	391	300	0.11722
CHLOROPHYCEAE							
Chlorococcoids (<10um)			24	0	1172	60	0.07033
Coelastrum			0	16	31	80	0.00250
Crucigenia			8	0	391	30	0.01172
Dictyosphaerium			16	0	781	20	0.01563
Monoraphidium (small)			14	0	684	16	0.01094
Monoraphidium (large)			1	0	49	400	0.01954
Oocystis			6	0	293	300	0.08792
Scenedesmus			10	0	488	250	0.12211
CRYPTOPHYCEAE							
Cryptomonads			1	0	49	320	0.01563
CYANOPHYCEAE							
Dolichospermum - coiled (≥6µm)		Р	0	30	59	280	0.01641
Limnolyngbya			100	0	4884	4.9	0.02393
Planktolyngbya			30	0	1465	3.8	0.00557
Synechococcales small (iauv <20)			137	0	6691	5.25	0.03513
EUGLENOPHYCEAE							
Euglenophytes			0	1	2	4420	0.00864

ANALYST: Adam Deliyiannis (signatory) REVIEWED: Louise Ungemach (signatory) DATE: 06/10/2022
Biologist Biologist

METHOD NO.: MB010/MW024VCA Page 1 of 2



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Magnification		toxic (P)	- 200x	- 100x	Count (cells/mL)	Volume	Biovolume (mm3/L)
Fields		*	20	500	(cells/iliL)	(um3)	(111113/2)

TOTAL BGA	13099	0.08104
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	59	0.01641
TOTAL ALGAE	41363	66.67243

⁺ 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 (signatory) REVIEWED: Louise Ungemach (signatory) DATE: 06/10/2022
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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.