

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.:	7428770 22-19601					
LOCALITY:	EM2207234-002					
SITE:	US Tauwitchere					
SAMPLE:	Surface					
DATE SAMPLED :	20/04/2022					
DATE ANALYSED :	26/04/2022					
SAMPLED BY:	Sample analysed as received					

COMMENTS: + Current algal levels are unlikely to impair water quality.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0333 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			9	0	435	2860	1.24552
Centrales			180	0	8710	200	1.74199
Nitzschia			3	0	145	400	0.05807
Pennales			10	0	484	300	0.14517
CHLOROPHYCEAE							
Ankistrodesmus			2	0	97	132	0.01277
Botryococcus			0	40	77	98	0.00759
Chlorococcoids (<10um)			145	0	7016	60	0.42098
Crucigenia			248	0	12000	30	0.36001
Dictyosphaerium			315	0	15242	20	0.30485
Didymocystis			6	0	290	41	0.01190
Eremosphaera			0	12	23	700	0.01626
Lagerheimia			2	0	97	500	0.04839
Monoraphidium (small)			180	0	8710	16	0.13936
Monoraphidium (large)			6	0	290	400	0.11613
Oocystis			72	0	3484	300	1.04520
Pediastrum			2	0	97	60	0.00581
Planctonema			68	0	3290	800	2.63234
Scenedesmus			56	0	2710	250	0.67744
Staurastrum			0	1	2	2000	0.00387
Tetraedron			12	0	581	150	0.08710
Tetrastrum			56	0	2710	40	0.10839
CRYPTOPHYCEAE							
Cryptomonads			8	0	387	320	0.12387
CYANOPHYCEAE							

ANALYST: Kirsten Mudie (signatory) Biologist

REVIEWED: Adam Deliyiannis (signatory)

Biologist

DATE: **26/04/2022**

METHOD NO.: MB010/MW024VCA

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Anabaena		0	11	21	76	0.00162	
Aphanizomenonaceae family - straight	Р	12	0	581	67	0.03890	
Cuspidothrix issatschenkoi		0	110	213	57	0.01214	
Limnolyngbya (Planktolyngbya circumcreta)		785	0	37985	4.9	0.18613	
Planktolyngbya		1885	0	91213	3.8	0.34661	
Synechococcales small (iauv <20)		1355	0	65567	5.25	0.34422	
EUGLENOPHYCEAE							
Euglena		0	3	6	7000	0.04065	
Phacus		2	0	97	6000	0.58066	
TOTAL BGA				195580		0.92962	
TOTAL TOXIGENIC BGA				0		0.00000	
TOTAL POTENTIALLY TOXIC BGA				581		0.03890	

⁺ 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.

262560

10.86395

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: Kirsten Mudie (signatory) REVIEWED: Adam Deliyiannis (signatory) DATE: 26/04/2022
Biologist Biologist

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