

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.:	7545128 22-57032					
LOCALITY:	EM2213883-001					
SITE:	US Tauwitchere					
SAMPLE:	Surface					
DATE SAMPLED :	20/07/2022					
DATE ANALYSED :	25/07/2022					
SAMPLED BY:	Sample analysed as received					

COMMENTS: + A highly diverse algal community was observed with current algal levels that may mildly impair water quality.

Magnification Fields	1 : 1	(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			0	4	8	2860	0.02243
Centrales			108	0	5295	200	1.05893
Pennales			8	0	392	300	0.11766
Pennales (small <20um)			36	0	1765	251	0.44298
CHLOROPHYCEAE							
Botryococcus			0	20	39	98	0.00384
Chlorococcoids (<10um)			212	0	10393	60	0.62359
Closterium			0	1	2	4130	0.00810
Cosmarium			1	0	49	500	0.02451
Crucigenia			80	0	3922	30	0.11766
Dictyosphaerium			132	0	6471	20	0.12942
Didymocystis			24	0	1177	41	0.04824
Eremosphaera			0	5	10	700	0.00686
Lagerheimia			12	0	588	500	0.29415
Monoraphidium (small)			76	0	3726	16	0.05961
Monoraphidium (large)			2	0	98	400	0.03922
Oocystis			112	0	5491	300	1.64722
Pediastrum			8	0	392	60	0.02353
Planctonema			104	0	5099	800	4.07883
Scenedesmus			8	0	392	250	0.09805
Staurastrum			0	1	2	2000	0.00392
Tetraedron			4	0	196	150	0.02941
Tetrastrum			32	0	1569	40	0.06275
CHRYSOPHYCEAE							
Other Chrysophyceae			2	0	98	350	0.03432

ANALYST: Kirsten Mudie (signatory) REVIEWED: Adam Deliyiannis (signatory) DATE: **26/07/2022 Biologist**

Biologist

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Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0199 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)
CRYPTOPHYCEAE							
Cryptomonads			8	0	392	320	0.12550
CYANOPHYCEAE							
Limnolyngbya			568	0	27846	4.9	0.13644
Oscillatoriales (iauv 1-100)		Р	0	48	94	60.8	0.00572
Planktolyngbya			160	0	7844	3.8	0.02981
Scytonema			0	110	216	400	0.08628
Synechococcales small (iauv <20)			524	0	25689	5.25	0.13487
TOTAL BGA		61689				0.39312	
TOTAL TOXIGENIC BGA		0				0.00000	
TOTAL POTENTIALLY TOXIC BGA		94				0.00572	
TOTAL ALGAE		109255				9.49388	

⁺ 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: Kirsten Mudie (signatory) REVIEWED: Adam Deliyiannis (signatory) DATE: 26/07/2022
Biologist Biologist

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