

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.:	7281159 21-59669					
LOCALITY:	EM2125413-018					
SITE:	US Tauwitchere					
SAMPLE:	Surface					
DATE SAMPLED :	13/12/2021					
DATE ANALYSED :	20/12/2021					
SAMPLED BY:	Sample analysed as received					

COMMENTS: + Excessive levels of small BGA will impair water quality and may pose a health risk.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0145 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							
Anaulus			0	6	12	500	0.00591
Aulacoseira			0	11	22	2860	0.06202
Centrales			6	0	296	200	0.05914
Nitzschia			0	3	6	400	0.00237
Pennales			16	0	789	300	0.23657
CHLOROPHYCEAE							
Botryococcus			0	140	276	98	0.02705
Chlorococcoids (<10um)			84	0	4140	60	0.24840
Chlorolobion			1	0	49	70	0.00345
Colonial green (cells)			60	0	2957	100	0.29571
Crucigenia			368	0	18137	30	0.54411
Dictyosphaerium			24	0	1183	20	0.02366
Didymocystis			16	0	789	41	0.03233
Dimorphococcus			32	0	1577	20	0.03154
Filamentous Green			64	0	3154	386	1.21755
Lagerheimia			20	0	986	500	0.49285
Monoraphidium (small)			52	0	2563	16	0.04101
Monoraphidium (large)			1	0	49	400	0.01971
Nephrocytium			6	0	296	200	0.05914
Oocystis			136	0	6703	300	2.01084
Pediastrum			8	0	394	60	0.02366
Planctonema			196	0	9660	800	7.72794
Scenedesmus			68	0	3351	250	0.83785
Tetraedron			16	0	789	150	0.11828
Tetrastrum			80	0	3943	40	0.15771

ANALYST: Kirsten Mudie (signatory) **Biologist**

REVIEWED: Adam Deliyiannis (signatory)

Biologist

DATE: **22/12/2021**

METHOD NO.: MB010/MW024VCA



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CRYPTOPHYCEAE								
Cryptomonads			1	0	49	320	0.01577	
CYANOPHYCEAE								
Cuspidothrix issatschenkoi			0	243	479	57	0.02731	
Limnolyngbya (Planktolyngbya circumcreta)			2620	0	129128	4.9	0.63273	
Oscillatoriales (iauv 101-200)		Р	0	25	49	142.8	0.00704	
Planktolyngbya			4380	0	215870	3.8	0.82031	
Synechococcales small (iauv <20)			5520	0	272055	5.25	1.42829	
EUGLENOPHYCEAE								
Euglena			0	3	6	7000	0.04140	
TOTAL BGA		617581				2.91566		
TOTAL TOXIGENIC BGA		0				0.00000		
TOTAL POTENTIALLY TOXIC BGA		49				0.00704		
TOTAL ALGAE		679757				17.25165		

⁺ 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.

ANALYST: Kirsten Mudie (signatory) REVIEWED: Adam Deliyiannis (signatory) DATE: 22/12/2021
Biologist Biologist

METHOD NO.: MB010/MW024VCA Page 2 of 2

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.