

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.:	7152212 21-43664					
LOCALITY:	EM2118068-003					
SITE:	DS Tauwitchere					
SAMPLE:	Surface					
DATE SAMPLED :	9/09/2021					
DATE ANALYSED :	14/09/2021					
SAMPLED BY:	Sample analysed as received					

COMMENTS: + A diverse and abundant algal community was observed with BGA in levels sufficient to impair water quality.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0046 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			48	0	2389	200	0.47780	
Pennales			1	0	50	300	0.01493	
Pennales (small <20um)			1	0	50	251	0.01249	
CHLOROPHYCEAE								
Botryococcus			0	80	159	98	0.01561	
Chlamydomonads			1	0	50	250	0.01244	
Chlorococcoids (<10um)			44	0	2190	60	0.13140	
Closterium			3	0	149	4130	0.61666	
Colonial green (cells)			28	0	1394	100	0.13936	
Crucigenia			272	0	13538	30	0.40613	
Dictyosphaerium			254	0	12642	20	0.25284	
Didymocystis			48	0	2389	41	0.09795	
Eremosphaera			0	10	20	700	0.01394	
Lagerheimia			22	0	1095	500	0.54748	
Monoraphidium			70	0	3484	900	3.13558	
Oocystis			252	0	12542	300	3.76269	
Pediastrum			18	0	896	60	0.05375	
Planctonema			164	0	8162	800	6.52996	
Scenedesmus			44	0	2190	250	0.54748	
Tetraedron			8	0	398	150	0.05973	
Tetrastrum			24	0	1195	40	0.04778	
CHRYSOPHYCEAE	CHRYSOPHYCEAE							
Other Chrysophyceae			4	0	199	350	0.06968	
CRYPTOPHYCEAE								
Cryptomonads			4	0	199	320	0.06371	
		1		1				

ANALYST: Kirsten Mudie (signatory)
Biologist

METHOD NO.: MB010/MW024VCA

REVIEWED: Adam Deliyiannis
Biologist

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DATE: 14/09/2021



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CYANOPHYCEAE							
Limnolyngbya (Planktolyngbya circumcreta)		2120	0	105515	4.9	0.51702
Planktolyngbya			1990	0	99044	3.8	0.37637
Romeria			9	0	448	31	0.01389
Synechococcales small (iauv <20)			12580	0	626120	5.25	3.28713
TOTAL BGA		831127				4.19441	
TOTAL TOXIGENIC BGA		0				0.00000	
TOTAL POTENTIALLY TOXIC BGA		0				0.00000	
TOTAL ALGAE		896507				21.20379	

⁺ 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: Kirsten Mudie (signatory) REVIEWED: Adam Deliyiannis DATE: 14/09/2021
Biologist Biologist

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^{*} 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.