

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.:	7116660 21-39298					
LOCALITY:	EM2115770-016					
SITE:	Morella Basin @Gauge					
SAMPLE:	Surface					
DATE SAMPLED :	9/08/2021					
DATE ANALYSED :	13/08/2021					
SAMPLED BY:	Sample analysed as received					

COMMENTS: + A diverse community of algal taxa was observed. Current levels are unlikely to impact water quality.

Sedgewick-Rafter Vol.(ml) 1.024 Concentration 1: Magnification Fields	/T\ ~=	- 200x 20	- 100x 500	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
BACILLARIOPHYCEAE						
Entomoneis		0	2	4	1000	0.00391
Naviculales		14	0	683	1400	0.95684
Pennales		4	0	195	300	0.05858
Pennales (small <20um)		1	0	49	251	0.01225
CHLOROPHYCEAE						
Ankistrodesmoideae		15	0	732	132	0.09666
Chlorococcoids (<10um)		4	0	195	60	0.01172
Oocystis		4	0	195	300	0.05858
CHRYSOPHYCEAE						
Other Chrysophyceae		1	0	49	350	0.01709
CYANOPHYCEAE						
Planktolyngbya		5	0	244	3.8	0.00093
Synechococcales small (iauv <20)		86	0	4198	5.25	0.02204
DINOPHYCEAE						
Gymnodiniales (small)		1	0	49	500	0.02441
Peridiniales		3	0	146	5000	0.73228
OTHER PHYTOPLANKTON						
Other small flagellates		4	0	195	80	0.01562
Prasinophytes		8	0	391	100	0.03905
Raphidophytes		3	0	146	7000	1.02519
TOTAL BGA		4442				0.02297
TOTAL TOXIGENIC BGA		0				0.00000
TOTAL POTENTIALLY	TOXIC BGA	0				0.00000
то	TAL ALGAE	GAE 7471 3.0°			3.07516	

ANALYST: Adam Deliyiannis Biologist

REVIEWED: Karen Simonsen (signatory)

Biologist

DATE: 13/08/2021

METHOD NO.: MB010/MW024VCA



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Sedgewick-Rafter Vol.(ml) Concentration	1.0242 1 : 1	Toxigenic (T) or Potentially	r		Total Cell	Individual Algal Unit	Total
Magnification		toxic (P)	- 200x	- 100x	Count (cells/mL)	Volume	Biovolume (mm3/L)
Fields		*	20	500	(cells/iliL)	(um3)	(111110/12)

⁺ 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
Biologist

METHOD NO.: MB010/MW024VCA

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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.