

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. :	6873990 21-07778			
LOCALITY:	EM2101680-008			
SITE:	McGrath Flat			
SAMPLE:	Surface			
DATE SAMPLED :	3/02/2021			
DATE ANALYSED :	8/02/2021			
SAMPLED BY:	Sample analysed as received			

COMMENTS: + A diverse community of algal taxa was observed with low biovolume BGA Synechococcales most numerous. Current levels may pose a health risk.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0242 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	BACILLARIOPHYCEAE						
Amphora			1	0	49	500	0.02441
Centrales			2	0	98	200	0.01953
Gyrosigma			0	1	2	1400	0.00273
Naviculales			1	0	49	1400	0.06835
Nitzschia			45	0	2197	400	0.87873
Pennales			5	0	244	300	0.07323
Pennales (small <20um)			1	0	49	251	0.01225
Pleurosigma			0	4	8	2000	0.01562
CHLOROPHYCEAE							
Ankistrodesmoideae			122	0	5956	132	0.78617
Chlorococcoids (<10um)			890	0	43449	60	2.60691
Oocystis			3	0	146	300	0.04394
CHRYSOPHYCEAE							
Other Chrysophyceae			3	0	146	350	0.05126
CRYPTOPHYCEAE							
Cryptomonads			4	0	195	320	0.06249
CYANOPHYCEAE							
Planktolyngbya			4	0	195	3.8	0.00074
Pseudanabaena			11	0	537	12.5	0.00671
Synechococcales small (iauv <20)			18400	0	898262	5.25	4.71588
DINOPHYCEAE							
Gymnodiniales			1	0	49	2000	0.09764
OTHER PHYTOPLANKTON							
Other small flagellates			14	0	683	80	0.05468
Prasinophytes			1	0	49	100	0.00488

ANALYST: Adam Deliyiannis Biologist

REVIEWED: Kirsten Mudie (signatory)

Biologist

DATE: 09/02/2021

METHOD NO.: MB010/MW024VCA



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Magnification		toxic (P)	- 200x	- 100x	Count (cells/mL)	Volume	Biovolume (mm3/L)
Fields		*	20	500	(Cells/IIIL)	(um3)	(1111113/L)

TOTAL BGA	898994	4.72333
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	952363	9.52615

<sup>+</sup> 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

REVIEWED: Kirsten Mudie (signatory)
Biologist

METHOD NO.: MB010/MW024VCA Page 2 of 2

<sup>\*</sup> 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.