

22 Dalmore Drive Scoresby 3179 Tel. 03 8756 8183 Fax. 03 9763 1862



DATE: 23/03/2021



## **ALGAL REPORT**

CLIENT:	Australian Laboratory Services Pty Ltd SA					
LABORATORY NO./BATCH NO.:	6933877 21-15798					
LOCALITY:	EM2104707-014					
SITE:	Mark Point					
SAMPLE:	Surface					
DATE SAMPLED :	18/03/2021					
DATE ANALYSED :	22/03/2021					
SAMPLED BY:	Sample analysed as received					

COMMENTS: + A diverse community of algal taxa was observed, the presence of toxic BGA Raphidiopsis raciborskii should be noted. Current levels are unlikely to influence water quality.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1 : 1 Pot	kigenic Γ) or entially kic (P)	- 200x 20	- 100x 500	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
BACILLARIOPHYCEAE							
Chaetoceros			0	7	14	200	0.00275
Pennales			0	1	2	300	0.00059
CHLOROPHYCEAE		,					
Chlorococcoids (<10um)			39	0	1912	60	0.11472
Planctonema			0	30	59	800	0.04706
CHRYSOPHYCEAE		,					
Other Chrysophyceae			1	0	49	350	0.01716
CRYPTOPHYCEAE							
Cryptomonads			5	0	245	320	0.07844
CYANOPHYCEAE							
Raphidiopsis raciborskii		Т	17	0	833	42	0.03500
Synechococcales small (iauv <20)			62	0	3040	5.25	0.01596
DINOPHYCEAE							
Dinoflagellates			0	1	2	20000	0.03922
Gymnodiniales			0	1	2	2000	0.00392
OTHER PHYTOPLANKTON							
Other small flagellates			7	0	343	80	0.02745
TOTAL BGA		3873				0.05096	
TOTAL TOXIGENIC BGA		833				0.03500	
TOTAL POTENTIALLY TOXIC BGA		BGA	0				0.00000
TOTAL ALGAE		6501				0.38227	

ANALYST: Adam Deliyiannis
Biologist

is REVIEWED: Louise Ungemach (signatory)
Biologist

METHOD NO.: MB010/MW024VCA Page 1 of 2



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COMMENTS: + A diverse community of algal taxa was observed, the presence of toxic BGA Raphidiopsis raciborskii should be noted. Current levels are unlikely to influence water quality.

Sedgewick-Rafter Vol.(ml) Concentration	1.0199 1 : 1	Toxigenic (T) or Potentially			Total Cell	Individual Algal Unit	Total
Magnification		toxic (P)	- 200x 20	- 100x 500	Count (cells/mL)	Volume (um3)	Biovolume (mm3/L)
Fields			20	500			

<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: Louise Ungemach (signatory)
Biologist

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<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.