

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.:	7152223 21-43664					
LOCALITY:	EM2118068-014					
SITE:	Snipe Point					
SAMPLE:	Surface					
DATE SAMPLED :	8/09/2021					
DATE ANALYSED :	13/09/2021					
SAMPLED BY:	Sample analysed as received					

COMMENTS: + A diverse community of algal taxa was observed. Excessive levels of low biovolume BGA Synechococcales are likely to influence water quality.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	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							
Amphora			1	0	49	500	0.02458
Nitzschia			2	0	98	400	0.03934
Pennales			1	0	49	300	0.01475
Pennales (small <20um)			2	0	98	251	0.02468
CHLOROPHYCEAE							
Ankistrodesmoideae			24	0	1180	132	0.15577
Chlorococcoids			31	0	1524	500	0.76212
CYANOPHYCEAE							
Synechococcales small (iauv <20)			28000	0	1376733	5.25	7.22785
DINOPHYCEAE							
Gymnodiniales			1	0	49	2000	0.09834
Gymnodiniales (small)			2	0	98	500	0.04917
Peridiniales			1	0	49	5000	0.24585
EUGLENOPHYCEAE							
Trachelomonas			0	1	2	3000	0.00590
OTHER PHYTOPLANKTON	,	<u> </u>		1			
Other small flagellates			14	0	688	80	0.05507
Prasinophytes			2	0	98	100	0.00983
Raphidophytes			3	0	148	7000	1.03255
TOTAL BGA		1376733				7.22785	
TOTAL TOXIGENIC BGA		0				0.00000	
TOTAL POTENTIALLY TOXIC BGA		0				0.00000	
TOTAL ALGAE		1380863				9.74580	

ANALYST: Adam Deliyiannis
Biologist

nnis REVIEWED: Kirsten Mudie (signatory)
gist Biologist

METHOD NO.: MB010/MW024VCA Page 1 of 2

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COMMENTS: + A diverse community of algal taxa was observed. Excessive levels of low biovolume BGA Synechococcales are likely to influence water quality.

Sedgewick-Rafter Vol.(ml) Concentration	1.0169 1 : 1	Toxigenic (T) or Potentially			Total Cell	Individual Algal Unit	Total
Magnification		toxic (P)	- 200x	- 100x	Count (cells/mL)	Volume (um3)	Biovolume (mm3/L)
Fields		-	20	500	,	()	, ,

⁺ 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

^{*} 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.