

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





## **ALGAL REPORT**

CLIENT:	Australian Laborator	Australian Laboratory Services Pty Ltd SA		
LABORATORY NO./BATCH NO. :	7152222	21-43664		
LOCALITY:	EM2118068-013			
SITE:	Seagull Island			
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.

	7)242 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	0.02441
Nitzschia		6	0	293	400	0.11716
Pennales		1	0	49	300	0.01465
Pennales (small <20um)		1	0	49	251	0.01225
CHLOROPHYCEAE						
Ankistrodesmoideae		58	0	2831	132	0.37376
Chlorococcoids (<10um)		66	0	3222	60	0.19332
CRYPTOPHYCEAE						
Cryptomonads		0	1	2	320	0.00062
CYANOPHYCEAE						
Synechococcales small (iauv <20)		21280	0	1038860	5.25	5.45401
DINOPHYCEAE						
Gymnodiniales (small)		5	0	244	500	0.12205
OTHER PHYTOPLANKTON						
Other small flagellates		23	0	1123	80	0.08983
Prasinophytes		1	0	49	100	0.00488
Raphidophytes		3	0	146	7000	1.02519
TOTAL BGA		1038860			5.45401	
TOTAL TOXIGENIC BGA		0			0.00000	
TOTAL POTENTIALLY TOXIC BGA				0		0.00000
TOTAL ALGAE				1046917		7.43213

ANALYST: Adam Deliyiannis
Biologist

nnnis REVIEWED: Kirsten Mudie (signatory)
ogist Biologist

METHOD NO.: MB010/MW024VCA Page 1 of 2

DATE: **14/09/2021** 

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Sedgewick-Rafter Vol.(ml) Concentration	1.0242 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	,	()	` ,

<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

METHOD NO.: MB010/MW024VCA

REVIEWED: Kirsten Mudie (signatory)
Biologist

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DATE: 14/09/2021

<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.