

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





ALGAL REPORT

CLIENT:	ALS
LABORATORY NO./BATCH NO.:	6722405 20-45935
LOCALITY:	EM2017172-003
SITE:	Seagull Island
SAMPLE:	Surface
DATE SAMPLED :	30/09/2020
DATE ANALYSED :	7/10/2020
SAMPLED BY:	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed with small greens and low bioviolume BGA most numerous. Current combined levels are likely to impair water quality.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0268 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			0	1	2	500	0.00097
Naviculales			1	0	49	1400	0.06817
Nitzschia			35	0	1704	400	0.68173
Pleurosigma			0	1	2	2000	0.00390
CHLOROPHYCEAE							
Ankistrodesmoideae			172	0	8376	132	1.10557
Chlorococcoids (<10um)			2520	0	122711	60	7.36268
CRYPTOPHYCEAE							
Cryptomonads			4	0	195	320	0.06233
CYANOPHYCEAE							
Oscillatoriales (iauv 1-100)		Р	0	19	37	60.8	0.00225
Planktolyngbya			70	0	3409	3.8	0.01295
Pseudanabaena			12	0	584	12.5	0.00730
Synechococcales small (iauv <20)			30720	0	1495910	5.25	7.85353
DINOPHYCEAE							
Dinoflagellates			1	0	49	20000	0.97390
Gymnodiniales (small)			10	0	487	500	0.24347
Peridiniales			5	0	243	5000	1.21737
OTHER PHYTOPLANKTON							
Other small flagellates			192	0	9349	80	0.74795
Prasinophytes			7	0	341	100	0.03409

ANALYST: Adam Deliyiannis Biologist

REVIEWED: Karen Simonsen (signatory) **Biologist**

DATE: 07/10/2020

METHOD NO.: MB010/MW024CV Page 1 of 2



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Magnification		toxic (P)	- 200x	- 100x	(cells/mL)	Volume	Biovolume (mm3/L)
Fields		*	20	500	(cells/lilL)	(um3)	(111113/2)

99940 7.87603	1499940	TOTAL BGA
0 0.00000	0	TOTAL TOXIGENIC BGA
37 0.00225	37	TOTAL POTENTIALLY TOXIC BGA
13448 20.37818	1643448	TOTAL ALGAE

⁺ 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

nnis REVIEWED: Karen Simonsen (signatory)
gist Biologist

DATE: **07/10/2020**

METHOD NO.: MB010/MW024CV

^{*} 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.