

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.:	6754218 20-50457
LOCALITY:	EM2018692-017
SITE:	3.2km South of Salt Creek
SAMPLE:	Surface
DATE SAMPLED :	21/10/2020
DATE ANALYSED :	28/10/2020
SAMPLED BY:	Sample analysed as received

COMMENTS: + A diverse and abundant algal community was observed. Current excessive levels of small BGA and chlorococcoids are likely to impair water quality.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0018 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	50	500	0.02496
Cocconeis			1	0	50	450	0.02246
Nitzschia			7	0	349	400	0.13975
Pennales (small <20um)			4	0	200	251	0.05011
CHLOROPHYCEAE							
Ankistrodesmoideae			487	0	24306	132	3.20842
Chlamydomonads			2	0	100	250	0.02496
Chlorococcoids (<10um)			5520	0	275504	60	16.53025
Selenastrum			34	0	1697	250	0.42424
CRYPTOPHYCEAE							
Cryptomonads			8	0	399	320	0.12777
CYANOPHYCEAE							
Synechococcales small (iauv <20)			72960	0	3641445	5.25	19.11759
DINOPHYCEAE							
Gymnodiniales			0	3	6	2000	0.01198
Gymnodiniales (small)			24	0	1198	500	0.59892
Peridiniales			1	0	50	5000	0.24955
EUGLENOPHYCEAE		·		-			
Eutreptia			2	0	100	1000	0.09982
OTHER PHYTOPLANKTON				·	•		
Other small flagellates			4	0	200	80	0.01597
Prasinophytes			6	0	299	100	0.02995

ANALYST: Karen Simonsen (signatory) REVIEWED: Adam Deliyiannis DATE: 28/10/2020
Biologist Biologist

METHOD NO.: MB010/MW024CV Page 1 of 2



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

19.11759	3641445	TOTAL BGA
0.00000	0	TOTAL TOXIGENIC BGA
0.00000	0	TOTAL POTENTIALLY TOXIC BGA
40.67668	3945953	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: Karen Simonsen (signatory) REVIEWED: Adam Deliyiannis DATE: 28/10/2020 Biologist **Biologist**

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^{*} 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.