

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





ALGAL REPORT

CLIENT:	ALS			
LABORATORY NO./BATCH NO. :	6695266 20-42534			
LOCALITY:	EM2015594_018			
SITE:	3.2km Sth of Salt Creek			
SAMPLE:	Surface			
DATE SAMPLED :	9/09/2020			
DATE ANALYSED :	11/09/2020			
SAMPLED BY:	Sample analysed as received			

COMMENTS: + A moderately diverse algal community was observed with high levels of small BGA and greens present. Water quality may be impaired.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.024 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	0.02441
Entomoneis			1	0	49	1000	0.04883
Naviculales			1	0	49	1400	0.06836
Nitzschia			50	0	2441	400	0.97656
Pennales (small <20um)			6	0	293	251	0.07354
CHLOROPHYCEAE							
Ankistrodesmoideae			250	0	12207	132	1.61133
Chlorococcoids (<10um)			3880	0	189453	60	11.36719
Selenastrum			1	0	49	250	0.01221
CRYPTOPHYCEAE							
Cryptomonads			11	0	537	320	0.17188
CYANOPHYCEAE							
Planktolyngbya			36	0	1758	3.8	0.00668
Synechococcales small (iauv <20)			8280	0	404297	5.25	2.12256
DINOPHYCEAE							
Dinoflagellates			1	0	49	20000	0.97656
Gymnodiniales			3	0	146	2000	0.29297
Gymnodiniales (small)			7	0	342	500	0.17090
Peridiniales			1	0	49	5000	0.24414
OTHER PHYTOPLANKTON							
Other small flagellates			11	0	537	80	0.04297
Prasinophytes			3	0	146	100	0.01465

ANALYST: Kirsten Mudie (signatory) REVIEWED:
Biologist

METHOD NO.: MB010/MW024CV

REVIEWED: Adam Deliyiannis
Biologist

Page 1 of 2

DATE: 14/09/2020



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Magnification Fields		toxic (P)	- 200x 20	- 100x 500	(cells/mL)	Volume (um3)	(mm3/L)	

TOTAL BGA	406055	2.12924
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	612451	18.22572

⁺ 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: Kirsten Mudie (signatory) REVIEWED: Adam Deliyiannis DATE: 14/09/2020
Biologist Biologist

METHOD NO.: MB010/MW024CV 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.