

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





ALGAL REPORT

CLIENT:	ALS			
LABORATORY NO./BATCH NO.:	6722408 20-45935			
LOCALITY:	EM2017172-006			
SITE:	Salt Creek Outlet			
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) 1.016 Concentration 1: Magnification Fields	(T) an	- 200x 20	- 100x 500	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)	
BACILLARIOPHYCEAE							
Amphora		0	1	2	500	0.00098	
Naviculales		0	1	2	1400	0.00275	
Nitzschia		57	0	2803	400	1.12116	
Pennales		1	0	49	300	0.01475	
Pennales (small <20um)		2	0	98	251	0.02469	
CHLOROPHYCEAE							
Ankistrodesmoideae		315	0	15490	132	2.04465	
Chlorococcoids		6880	0	338316	500	169.15814	
CRYPTOPHYCEAE							
Cryptomonads		7	0	344	320	0.11015	
CYANOPHYCEAE							
Limnothrix/Geitlerinema/Anagnostidinema	Р	0	12	24	17.5	0.00041	
Planktolyngbya		25	0	1229	3.8	0.00467	
Pseudanabaena		14	0	688	12.5	0.00861	
Synechococcales small (iauv <20)		27840	0	1369001	5.25	7.18725	
DINOPHYCEAE							
Dinoflagellates		2	0	98	20000	1.96696	
Gymnodiniales (small)		6	0	295	500	0.14752	
Peridiniales		6	0	295	5000	1.47522	
OTHER PHYTOPLANKTON							
Other small flagellates		45	0	2213	80	0.17703	

ANALYST: Adam Deliyiannis Biologist

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

METHOD NO.: MB010/MW024CV

DATE: 07/10/2020



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

	edgewick-Rafter Vol.(ml) concentration	1.0168 1 : 1	Toxigenic (T) or Potentially		Total Cell	Individual Algal Unit	Total	
М	lagnification		toxic (P)	- 200x	- 100x	Count (cells/mL)	Volume (um3)	Biovolume (mm3/L)
F	ields		*	20	500	(**************************************	(uiii3)	(

TOTAL BGA	1370942	7.20094
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	24	0.00041
TOTAL ALGAE	1730947	183.44494

⁺ 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/MW024CV

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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.