

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





ALGAL REPORT

CLIENT:	ALS			
LABORATORY NO./BATCH NO.:	6695252 20-42534			
LOCALITY:	EM2015594-004			
SITE:	Mark Point			
SAMPLE:	Surface			
DATE SAMPLED :	8/09/2020			
DATE ANALYSED :	11/09/2020			
SAMPLED BY:	Sample analysed as received			

COMMENTS: + A highly diverse community of algal taxa was observed. Current levels may impair water quality.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0168 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							
Chaetoceros			424	0	20850	200	4.16994
Naviculales			1	0	49	1400	0.06884
Pennales (small <20um)			1	0	49	251	0.01234
CHLOROPHYCEAE							
Ankistrodesmoideae			4	0	197	132	0.02596
Chlamydomonads			4	0	197	250	0.04917
Chlorococcoids (<10um)			32	0	1574	60	0.09441
Crucigenia			16	0	787	30	0.02360
Didymocystis			2	0	98	41	0.00403
Filamentous Green			8	0	393	386	0.15185
Oocystis			11	0	541	300	0.16227
CHRYSOPHYCEAE							
Other Chrysophyceae			2	0	98	350	0.03442
CRYPTOPHYCEAE							
Cryptomonads			74	0	3639	320	1.16444
CYANOPHYCEAE							
Planktolyngbya			12	0	590	3.8	0.00224
Romeria			5	0	246	31	0.00762
Synechococcales small (iauv <20)			480	0	23603	5.25	0.12392
DINOPHYCEAE		1					
Dinoflagellates			0	17	33	20000	0.66876
Gymnodiniales (small)			2	0	98	500	0.04917
EUGLENOPHYCEAE							
Eutreptia			2	0	98	1000	0.09835
OTHER PHYTOPLANKTON							

ANALYST: Adam Deliyiannis Biologist

REVIEWED: Kirsten Mudie (signatory) Biologist

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Page 1 of 2



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Other small flagellates			58	0	2852	80	0.22817
Prasinophytes			6	0	295	100	0.02950

TOTAL BGA	24439	0.13378
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	56287	7.16904

⁺ 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

nis REVIEWED: Kirsten Mudie (signatory)
st 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.