

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





ALGAL REPORT

CLIENT:	ALS		
LABORATORY NO./BATCH NO.:	6722407 20-45935		
LOCALITY:	EM2017172-005		
SITE:	Morella Creek @ gauge		
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) 1.01 Concentration 1 Magnification Fields	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						
Centrales		2	0	98	200	0.01961
Naviculales		2	0	98	1400	0.13727
Pennales		2	0	98	300	0.02941
Pennales (small <20um)		4	0	196	251	0.04922
CHLOROPHYCEAE						
Ankistrodesmoideae		620	0	30395	132	4.01216
Chlamydomonads		1	0	49	250	0.01226
Chlorococcoids (<10um)		450	0	22061	60	1.32366
Colonial green (cells)		290	0	14217	100	1.42171
Lagerheimia		4	0	196	500	0.09805
Oocystis		8	0	392	300	0.11766
Selenastrum		940	0	46083	250	11.52074
CHRYSOPHYCEAE						
Other Chrysophyceae		4	0	196	350	0.06863
CRYPTOPHYCEAE			1	1		
Cryptomonads		1	0	49	320	0.01569
CYANOPHYCEAE						
Limnothrix/Geitlerinema/Anagnostidinema	Р	0	41	80	17.5	0.00141
Planktolyngbya		13	0	637	3.8	0.00242
Synechococcales small (iauv <20)		17120	0	839298	5.25	4.40631
DINOPHYCEAE						
Gymnodiniales (small)		1	0	49	500	0.02451
OTHER PHYTOPLANKTON						
Other small flagellates		16	0	784	80	0.06275
Prasinophytes		2	0	98	100	0.00980

ANALYST: Adam Deliyiannis Biologist

REVIEWED: Karen Simonsen (signatory)

Biologist

DATE: 07/10/2020

METHOD NO.: MB010/MW024CV



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

840015 4.41	iΑ	TOTAL BGA
0 0.000	iA	TOTAL TOXIGENIC BGA
80 0.00	iΑ	TOTAL POTENTIALLY TOXIC BGA
955074 23.333	E	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.

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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.