

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.:	7056267 21-31436				
LOCALITY:	EM2111820-005				
SITE:	Morella Basin @ O/L				
SAMPLE:	Surface				
DATE SAMPLED :	21/06/2021				
DATE ANALYSED :	24/06/2021				
SAMPLED BY:	Sample analysed as received				

COMMENTS: + A diverse community of algal taxa was observed and low biovolume BGA Synechococcales were most numerous. Current levels may impair water quality.

Sedgewick-Rafter Vol.(ml) 1.0303 Concentration 1:1 Magnification Fields	(T) an	- 200x 20	- 100x 500	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
BACILLARIOPHYCEAE						
Chaetoceros		1	0	49	200	0.00971
Cocconeis		1	0	49	450	0.02184
Entomoneis		1	0	49	1000	0.04853
Nitzschia		126	0	6115	400	2.44589
Pennales		1	0	49	300	0.01456
Pennales (small <20um)		1	0	49	251	0.01218
CHLOROPHYCEAE						
Ankistrodesmoideae		1	0	49	132	0.00641
Carteria		1	0	49	300	0.01456
Chlamydomonads		1	0	49	250	0.01213
Chlorococcoids (<10um)		12	0	582	60	0.03494
CRYPTOPHYCEAE						
Cryptomonads		1	0	49	320	0.01553
CYANOPHYCEAE	CYANOPHYCEAE					
Synechococcales small (iauv <20)		548	0	26594	5.25	0.13962
DINOPHYCEAE						
Dinoflagellates		1	0	49	20000	0.97059
Gymnodiniales (small)		3	0	146	500	0.07279
Peridiniales		2	0	97	5000	0.48530
OTHER PHYTOPLANKTON						
Other small flagellates		10	0	485	80	0.03882
Prasinophytes		182	0	8832	100	0.88324

ANALYST: Adam Deliyiannis
Biologist

REVIEWED: Karen Simonsen (signatory)
Biologist

METHOD NO.: MB010/MW024VCA

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COMMENTS: + A diverse community of algal taxa was observed and low biovolume BGA Synechococcales were most numerous. Current levels may impair water

Sedgewick-Rafter Vol.(ml) Concentration	1.0303 1 : 1	Toxigenic (T) or Potentially			Total Cell	Individual Algal Unit	Total
Magnification		toxic (P)	- 200x	- 100x	Count (cells/mL)	Volume	Biovolume (mm3/L)
Fields		*	20	500	(Cells/IIIL)	(um3)	(IIIII3/L)

TOTAL BGA	26594	0.13962
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	43341	5.22663

⁺ 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**

REVIEWED: Karen Simonsen (signatory)

Biologist

DATE: 25/06/2021

METHOD NO.: MB010/MW024VCA

^{*} 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.