

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7428785 22-19601
LOCALITY :	EM2207234-017
SITE :	Morella Creek @Gauge
SAMPLE :	Surface
DATE SAMPLED :	21/04/2022
DATE ANALYSED :	27/04/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + Current levels of algae are unlikely to impair water quality.

Sedgewick-Rafter Vol.(ml)	1.0018	Toxigenic (T) or Potentially toxic (P)	- 200x	- 100x	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um ³)	Total Biovolume (mm ³ /L)
Concentration	1 : 1	*	20	500			
Magnification							
Fields							

BACILLARIOPHYCEAE

<i>Nitzschia</i>		2	0	100	400	0.03993
<i>Pennales</i>		5	0	250	300	0.07487

CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>		10	0	499	132	0.06588
<i>Chlorococcoids (<10um)</i>		19	0	948	60	0.05690
<i>Dictyosphaerium</i>		8	0	399	20	0.00799
<i>Monoraphidium (small)</i>		12	0	599	16	0.00958

CRYPTOPHYCEAE

<i>Cryptomonads</i>		1	0	50	320	0.01597
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CYANOPHYCEAE

<i>Synechococcales small (iauv <20)</i>		107	0	5340	5.25	0.02804
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DINOPHYCEAE

<i>Gymnodiniales</i>		3	0	150	2000	0.29946
<i>Gymnodiniales (small)</i>		2	0	100	500	0.04991
<i>Peridinales</i>		2	0	100	5000	0.49910

OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		7	0	349	80	0.02795
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TOTAL BGA	5340	0.02804
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	8884	1.17557

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+ 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.

* 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.

ANALYST: **Kirsten Mudie (signatory)**
Biologist

REVIEWED: **Adam Deliyiannis (signatory)**
Biologist

DATE: **27/04/2022**

METHOD NO.: MB010/MW024VCA

Page 2 of 2