

## ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7328736 22-06265
LOCALITY :	EM2201088-007
SITE :	Morella Basin @ O/L
SAMPLE :	Surface
DATE SAMPLED :	20/01/2022
DATE ANALYSED :	1/02/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + Current algal levels are unlikely to influence water quality.

Sedgewick-Rafter Vol.(ml)	1.0145	Toxicogenic (T) or Potentially toxic (P)			Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
Concentration	1 : 1	*	- 200x	- 100x			
Magnification			20	500			
Fields							

### BACILLARIOPHYCEAE

Naviculales		1	0	49	1400	0.06900
Pennales		8	0	394	300	0.11828

### CHLOROPHYCEAE

Ankistrodesmoideae		1	0	49	132	0.00651
Chlorococcoids (<10um)		7	0	345	60	0.02070
Lagerheimia		2	0	99	500	0.04929
Monoraphidium (small)		3	0	148	16	0.00237
Oocystis		6	0	296	300	0.08871

### CHRYSTOPHYCEAE

Other Chrysophytes		1	0	49	200	0.00986
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### CYANOPHYCEAE

Synechococcales small (iauv <20)		70	0	3450	5.25	0.01811
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### DINOPHYCEAE

Peridinales		15	0	739	5000	3.69640
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### OTHER PHYTOPLANKTON

Other small flagellates		5	0	246	80	0.01971
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TOTAL BGA	3450	0.01811
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	5864	4.09894

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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  $\beta$ -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: **01/02/2022**

METHOD NO.: MB010/MW024VCA

Page 2 of 2