

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7484455 22-53362
LOCALITY :	EM2212385-008
SITE :	Morella Basin @ O/L
SAMPLE :	Surface
DATE SAMPLED :	30/06/2022
DATE ANALYSED :	5/07/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed with current levels unlikely to influence water quality.

Sedgewick-Rafter Vol.(ml)	1.036	Toxicogenic (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>Chaetoceros</i>	1	0	48	200	0.00965
<i>Pennales</i>	1	0	48	300	0.01448

CHLOROPHYCEAE

<i>Chlamydomonads</i>	5	0	241	250	0.06033
<i>Chlorococcoids (<10um)</i>	2	0	97	60	0.00579
<i>Dimorphococcus</i>	4	0	193	20	0.00386
<i>Monoraphidium (small)</i>	38	0	1834	16	0.02934
<i>Oocystis</i>	7	0	338	300	0.10135

CHRYSOPHYCEAE

<i>Other Chrysophyceae</i>	7	0	338	350	0.11824
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CYANOPHYCEAE

<i>Planktolyngbya</i>	10	0	483	3.8	0.00183
<i>Pseudanabaena</i>	0	14	27	12.5	0.00034
<i>Synechococcales small (iauv <20)</i>	17	0	820	5.25	0.00431

DINOPHYCEAE

<i>Gymnodiniales</i>	44	0	2124	2000	4.24710
<i>Peridinales</i>	6	0	290	5000	1.44788

OTHER PHYTOPLANKTON

<i>Other small flagellates</i>	17	0	820	80	0.06564
<i>Prasinophytes</i>	3	0	145	100	0.01448
<i>Raphidophytes</i>	1	0	48	7000	0.33784

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

REVIEWED: **Louise Ungemach (signatory)**
Biologist

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METHOD NO.: MB010/MW024VCA

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Sedgewick-Rafter Vol.(ml)	1.036	Toxigenic (T) or Potentially toxic (P)					
Concentration	1 : 1	*	- 200x	- 100x	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
Magnification			20	500			
Fields							

TOTAL BGA	1330	0.00648
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	7894	6.46246

+ 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.

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