

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7609398 22-60564
LOCALITY :	EM2215131-008
SITE :	Morella Basin @ O/L
SAMPLE :	Surface
DATE SAMPLED :	9/08/2022
DATE ANALYSED :	15/08/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa were observed. Current levels are unlikely to influence water quality.

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

BACILLARIOPHYCEAE

<i>Chaetoceros</i>		5	0	243	200	0.04853
<i>Entomoneis</i>		0	2	4	1000	0.00388
<i>Pennales</i>		2	0	97	300	0.02912
<i>Pennales (small <20um)</i>		1	0	49	251	0.01218

CHLOROPHYCEAE

<i>Chlorococcoids</i>		1	0	49	500	0.02426
<i>Chlorococcoids (<10um)</i>		21	0	1019	60	0.06115
<i>Dictyosphaerium</i>		12	0	582	20	0.01165
<i>Lagerheimia</i>		0	1	2	500	0.00097
<i>Micractinium</i>		0	1	2	30	0.00006
<i>Monoraphidium (small)</i>		12	0	582	16	0.00932

CHRYSTOPHYCEAE

<i>Other Chrysophyceae</i>		2	0	97	350	0.03397
----------------------------	--	---	---	----	-----	---------

CYANOPHYCEAE

<i>Pseudanabaena</i>		9	0	437	12.5	0.00546
<i>Synechococcales small (iauv <20)</i>		205	0	9949	5.25	0.05223

DINOPHYCEAE

<i>Gymnodiniales</i>		4	0	194	2000	0.38824
<i>Gymnodiniales (small)</i>		3	0	146	500	0.07279
<i>Peridinales</i>		4	0	194	5000	0.97059

EUGLENOPHYCEAE

<i>Euglenophytes</i>		0	1	2	4420	0.00858
----------------------	--	---	---	---	------	---------

OTHER PHYTOPLANKTON

<i>Prasinophytes</i>		2	0	97	100	0.00971
----------------------	--	---	---	----	-----	---------

ANALYST: *Adam Deliyannis (signatory)* REVIEWED: *Lauren Minett (signatory)*
Biologist Biologist

DATE: **15/08/2022**

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7609398 22-60564
LOCALITY :	EM2215131-008
SITE :	Morella Basin @ O/L
SAMPLE :	Surface
DATE SAMPLED :	9/08/2022
DATE ANALYSED :	15/08/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa were observed. Current levels are unlikely to influence water quality.

Sedgewick-Rafter Vol.(ml)	1.0303	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							

TOTAL BGA	10386	0.05769
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	13745	1.74268

+ 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: **Adam Deliyiannis (signatory)** REVIEWED: **Lauren Minett (signatory)**
Biologist Biologist

DATE: **15/08/2022**