

## ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7152228 21-43664
LOCALITY :	EM2118068-019
SITE :	3.2km Sth of Salt Ck
SAMPLE :	Surface
DATE SAMPLED :	8/09/2021
DATE ANALYSED :	13/09/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + High levels of small BGA were noted, sufficient to impair water quality.

Sedgewick-Rafter Vol.(ml)	1.0255	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

Centrales		0	1	2	200	0.00039
Pennales		0	1	2	300	0.00059
Pennales (small <20um)		1	0	49	251	0.01224

### CHLOROPHYCEAE

Ankistrodesmoideae		35	0	1706	132	0.22526
Chlorococcoids (<10um)		60	0	2925	60	0.17552

### CRYPTOPHYCEAE

Cryptomonads		0	2	4	320	0.00125
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### CYANOPHYCEAE

Synechococcales small (iauv <20)		3820	0	186251	5.25	0.97782
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### DINOPHYCEAE

Gymnodiniales		0	4	8	2000	0.01560
Gymnodiniales (small)		1	0	49	500	0.02438

### OTHER PHYTOPLANKTON

Other small flagellates		50	0	2438	80	0.19503
Prasinophytes		1	0	49	100	0.00488

TOTAL BGA	186251	0.97782
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	193483	1.63294

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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**  
Biologist

DATE: **14/09/2021**

METHOD NO.: MB010/MW024VCA

Page 2 of 2