

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7136741 21-41798
LOCALITY :	EM2116912-019
SITE :	3.2km Sth of Salt Ck
SAMPLE :	Surface
DATE SAMPLED :	24/08/2021
DATE ANALYSED :	27/08/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed. Excessive levels of low biovolume BGA are likely to impact water quality.

Sedgewick-Rafter Vol.(ml)	1.0407	Toxigenic (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

<i>Amphora</i>		1	0	48	500	0.02402
<i>Entomoneis</i>		0	1	2	1000	0.00192
<i>Nitzschia</i>		5	0	240	400	0.09609
<i>Pennales</i>		7	0	336	300	0.10089
<i>Pennales (small <20um)</i>		4	0	192	251	0.04824

CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>		63	0	3027	132	0.39954
<i>Chlorococcoids (<10um)</i>		52	0	2498	60	0.14990

CHRYSTOPHYCEAE

<i>Other Chrysophytes</i>		1	0	48	200	0.00961
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CYANOPHYCEAE

<i>Synechococcales small (iauv <20)</i>		14880	0	714903	5.25	3.75324
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DINOPHYCEAE

<i>Gymnodiniales</i>		1	0	48	2000	0.09609
<i>Gymnodiniales (small)</i>		4	0	192	500	0.09609
<i>Peridinales</i>		0	1	2	5000	0.00961

OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		52	0	2498	80	0.19987
<i>Prasinophytes</i>		3	0	144	100	0.01441
<i>Raphidophytes</i>		2	0	96	7000	0.67262

TOTAL BGA	714903	3.75324
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	724274	5.67214

ANALYST: *Adam Deliyiannis*
Biologist

REVIEWED: *Kirsten Mudie (signatory)*
Biologist

DATE: **30/08/2021**

METHOD NO.: MB010/MW024VCA

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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.