

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7171305 21-46438
LOCALITY :	EM2119079-019
SITE :	3.2km Sth of Salt Ck
SAMPLE :	Surface
DATE SAMPLED :	22/09/2021
DATE ANALYSED :	28/09/2021
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)	1.036	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

<i>Amphora</i>		2	0	97	500	0.04826
<i>Centrales</i>		1	0	48	200	0.00965
<i>Nitzschia</i>		1	0	48	400	0.01931
<i>Pennales</i>		4	0	193	300	0.05792
<i>Pennales (small <20um)</i>		4	0	193	251	0.04846

CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>		49	0	2365	132	0.31216
<i>Chlorococcoids (<10um)</i>		23	0	1110	60	0.06660

CYANOPHYCEAE

<i>Pseudanabaena</i>		12	0	579	12.5	0.00724
<i>Synechococcales small (iauv <20)</i>		15280	0	737452	5.25	3.87162

DINOPHYCEAE

<i>Gymnodiniales</i>		3	0	145	2000	0.28958
<i>Gymnodiniales (small)</i>		1	0	48	500	0.02413

OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		16	0	772	80	0.06178
<i>Prasinophytes</i>		19	0	917	100	0.09170
<i>Raphidophytes</i>		2	0	97	7000	0.67568

TOTAL BGA	738031	3.87886
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	744064	5.58407

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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.