

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7007876 21-25384
LOCALITY :	EM2108900-007
SITE :	Salt Creek Outlet
SAMPLE :	Surface
DATE SAMPLED :	12/05/2021
DATE ANALYSED :	19/05/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed, with low biovolume BGA Synechococcales most numerous. Current levels are likely to impact on water quality.

Sedgewick-Rafter Vol.(ml)	1.0303	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>Nitzschia</i>		128	0	6212	400	2.48471
<i>Pennales (small <20um)</i>		1	0	49	251	0.01218

CHLOROPHYCEAE

<i>Carteria</i>		0	1	2	300	0.00058
<i>Chlamydomonads</i>		1	0	49	250	0.01213
<i>Chlorococcoids (<10um)</i>		750	0	36397	60	2.18383

CRYPTOPHYCEAE

<i>Cryptomonads</i>		0	1	2	320	0.00062
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CYANOPHYCEAE

<i>Planktolyngbya</i>		27	0	1310	3.8	0.00498
<i>Pseudanabaena</i>		0	31	60	12.5	0.00075
<i>Synechococcales small (iauv <20)</i>		5920	0	287295	5.25	1.50830

DINOPHYCEAE

<i>Dinoflagellates</i>		3	0	146	20000	2.91177
<i>Gymnodiniales (small)</i>		24	0	1165	500	0.58235

OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		7	0	340	80	0.02718
<i>Prasinophytes</i>		1	0	49	100	0.00485

TOTAL BGA	288665	1.51403
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	333076	9.73425

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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.