

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7484484 22-53363
LOCALITY :	EM2212384-009
SITE :	Salt Creek Outlet
SAMPLE :	Surface
DATE SAMPLED :	30/06/2022
DATE ANALYSED :	7/07/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + Current high levels of algae are sufficient to impair water quality.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.027 1 : 1	Toxicogenic (T) or Potentially toxic (P) *	- 200x 20	- 100x 500	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
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BACILLARIOPHYCEAE

<i>Amphora</i>			3	0	146	500	0.07303
<i>Chaetoceros</i>			5	0	243	200	0.04869
<i>Entomoneis</i>			1	0	49	1000	0.04869
<i>Nitzschia</i>			17	0	828	400	0.33106
<i>Pennales</i>			1	0	49	300	0.01461

CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>			760	0	37001	132	4.88413
<i>Chlamydomonads</i>			8	0	389	250	0.09737
<i>Chlorococcoids (<10um)</i>			5600	0	272639	60	16.35833
<i>Monoraphidium (small)</i>			5	0	243	16	0.00389

CYANOPHYCEAE

<i>Synechococcales small (iauv <20)</i>			63000	0	3067186	5.25	16.10273
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DINOPHYCEAE

<i>Dinoflagellates</i>			1	0	49	20000	0.97371
<i>Gymnodiniales</i>			6	0	292	2000	0.58423
<i>Gymnodiniales (small)</i>			19	0	925	500	0.46251
<i>Peridinales</i>			1	0	49	5000	0.24343

OTHER PHYTOPLANKTON

<i>Other small flagellates</i>			2520	0	122687	80	9.81500
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TOTAL BGA	3067186	16.10273
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	3502775	50.04138

ANALYST: **Kirsten Mudie (signatory)**
Biologist

REVIEWED: **Karen Simonsen (signatory)**
Biologist

DATE: **07/07/2022**

METHOD NO.: MB010/MW024VCA

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Concentration	1 : 1		- 200x	- 100x			
Magnification		*	20	500			
Fields							

+ 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.

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