

## ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	187818 22-45880
LOCALITY :	EM2209350-014
SITE :	Salt Creek Outlet
SAMPLE :	Surface
DATE SAMPLED :	19/05/2022
DATE ANALYSED :	24/05/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa were observed. Current levels are likely to influence water quality.

Sedgewick-Rafter Vol.(ml)	1.0327	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

Nitzschia		100	0	4842	400	1.93667
Pennales		1	0	48	300	0.01453

### CHLOROPHYCEAE

Ankistrodesmoideae		82	0	3970	132	0.52406
Chlorococcoids		1060	0	51322	500	25.66089

### CRYPTOPHYCEAE

Cryptomonads		11	0	533	320	0.17043
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### CYANOPHYCEAE

Synechococcales small (iauv <20)		13280	0	642975	5.25	3.37562
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### DINOPHYCEAE

Gymnodiniales		3	0	145	2000	0.29050
Gymnodiniales (small)		5	0	242	500	0.12104
Peridinales		1	0	48	5000	0.24208

### OTHER PHYTOPLANKTON

Other small flagellates		5	0	242	80	0.01937
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TOTAL BGA	642975	3.37562
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	704367	32.35519

+ 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: *Adam Deliyiannis (signatory)*  
Biologist

REVIEWED: *Louise Ungemach (signatory)*  
Biologist

DATE: **25/05/2022**

METHOD NO.: MB010/MW024VCA

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