

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7394993 22-15545
LOCALITY :	EM2204816-021
SITE :	3.2km Sth of Salt Ck
SAMPLE :	Surface
DATE SAMPLED :	17/03/2022
DATE ANALYSED :	25/03/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderately diverse algal community was observed. Current algal levels are sufficient to impair water quality (eg: discolouration).

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0274 1 : 1	Toxigenic (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>Nitzschia</i>			320	0	15573	400	6.22932
<i>Pennales</i>			2	0	97	300	0.02920

CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>			1640	0	79813	132	10.53533
<i>Carteria</i>			1	0	49	300	0.01460
<i>Chlorococcoids (<10um)</i>			5180	0	252093	60	15.12556
<i>Oocystis</i>			2	0	97	300	0.02920

CRYPTOPHYCEAE

<i>Cryptomonads</i>			1	0	49	320	0.01557
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CYANOPHYCEAE

<i>Leptolyngbya</i>			0	50	97	2.36	0.00023
<i>Synechococcales small (iauv <20)</i>			35700	0	1737395	5.25	9.12133

DINOPHYCEAE

<i>Gymnodiniales</i>			5	0	243	2000	0.48667
<i>Gymnodiniales (small)</i>			7	0	341	500	0.17033

OTHER PHYTOPLANKTON

<i>Other small flagellates</i>			10	0	487	80	0.03893
<i>Prasinophytes</i>			1	0	49	100	0.00487
<i>Raphidophytes</i>			1	0	49	7000	0.34067

TOTAL BGA	1737492	9.12156
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	2086432	42.14180

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

REVIEWED: **Adam Deliyiannis (signatory)**
Biologist

DATE: **25/03/2022**

METHOD NO.: MB010/MW024VCA

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Concentration	1 : 1	*	20	500			
Magnification							
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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