

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7152227 21-43664
LOCALITY :	EM2118068-018
SITE :	1.8km W of Salt Ck
SAMPLE :	Surface
DATE SAMPLED :	8/09/2021
DATE ANALYSED :	14/09/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + Excessive levels of small BGA were noted, sufficient to impair water quality.

Sedgewick-Rafter Vol.(ml)	1.0105	Toxicogenic (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

<i>Amphora</i>		0	1	2	500	0.00099
<i>Centrales</i>		1	0	49	200	0.00990
<i>Nitzschia</i>		4	0	198	400	0.07917
<i>Pennales</i>		0	1	2	300	0.00059
<i>Pennales (small <20um)</i>		1	0	49	251	0.01242

CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>		90	0	4453	132	0.58783
<i>Chlorococcoids (<10um)</i>		1020	0	50470	60	3.02820

CHRYSOPHYCEAE

<i>Other Chrysophyceae</i>		1	0	49	350	0.01732
----------------------------	--	---	---	----	-----	---------

CRYPTOPHYCEAE

<i>Cryptomonads</i>		5	0	247	320	0.07917
---------------------	--	---	---	-----	-----	---------

CYANOPHYCEAE

<i>Synechococcales small (iauv <20)</i>		28000	0	1385453	5.25	7.27363
--------------------------------------------	--	-------	---	---------	------	---------

DINOPHYCEAE

<i>Gymnodiniales</i>		1	0	49	2000	0.09896
<i>Gymnodiniales (small)</i>		2	0	99	500	0.04948

OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		91	0	4503	80	0.36022
<i>Prasinophytes</i>		2	0	99	100	0.00990

TOTAL BGA	1385453	7.27363
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	1445722	11.60777

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

REVIEWED: **Adam Deliyiannis**
Biologist

DATE: **14/09/2021**

METHOD NO.: MB010/MW024VCA

Page 1 of 2

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7152227 21-43664
LOCALITY :	EM2118068-018
SITE :	1.8km W of Salt Ck
SAMPLE :	Surface
DATE SAMPLED :	8/09/2021
DATE ANALYSED :	14/09/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + Excessive levels of small BGA were noted, sufficient to impair water quality.

Sedgewick-Rafter Vol.(ml)	1.0105	Toxigenic (T) or Potentially toxic (P)	- 200x	- 100x	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um ³)	Total Biovolume (mm ³ /L)
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.