

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7484457 22-53362
LOCALITY :	EM2212385-010
SITE :	3.2km Sth of Salt Ck
SAMPLE :	Surface
DATE SAMPLED :	30/06/2022
DATE ANALYSED :	5/07/2022
SAMPLED BY :	Sample analysed as received

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

Sedgewick-Rafter Vol.(ml)	1.0274	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

<i>Amphora</i>		1	0	49	500	0.02433
<i>Entomoneis</i>		0	1	2	1000	0.00195
<i>Nitzschia</i>		29	0	1411	400	0.56453
<i>Pennales</i>		4	0	195	300	0.05840
<i>Pennales (small <20um)</i>		5	0	243	251	0.06108

CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>		610	0	29687	132	3.91863
<i>Chlamydomonads</i>		10	0	487	250	0.12167
<i>Chlorococcoids (<10um)</i>		2940	0	143080	60	8.58478

CRYPTOPHYCEAE

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

<i>Synechococcales small (iauv <20)</i>		19600	0	953864	5.25	5.00779
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DINOPHYCEAE

<i>Dinoflagellates</i>		2	0	97	20000	1.94666
<i>Gymnodiniales</i>		18	0	876	2000	1.75200
<i>Gymnodiniales (small)</i>		9	0	438	500	0.21900

OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		1260	0	61320	80	4.90559
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TOTAL BGA	953864	5.00779
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	1191751	27.16701

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

REVIEWED: **Louise Ungemach (signatory)**
Biologist

DATE: **07/07/2022**

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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.

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

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Biologist

DATE: **07/07/2022**

METHOD NO.: MB010/MW024VCA

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