

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	6874000 21-07778
LOCALITY :	EM2101680_018
SITE :	3.2km South of Salt Creek
SAMPLE :	Surface
DATE SAMPLED :	3/02/2021
DATE ANALYSED :	8/02/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderately diverse algal community was observed with high levels of small BGA and greens observed. Water quality may be mildly impaired.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0169 1 : 1	Toxigenic (T) or Potentially toxic (P) *	- 200x 20	- 100x 500	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um ³)	Total Biovolume (mm ³ /L)
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BACILLARIOPHYCEAE

<i>Amphora</i>			2	0	98	500	0.04917
<i>Cocconeis</i>			5	0	246	450	0.11063
<i>Nitzschia</i>			19	0	934	400	0.37368
<i>Pennales (small <20um)</i>			12	0	590	251	0.14810

CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>			95	0	4671	132	0.61658
<i>Chlorococcoids (<10um)</i>			720	0	35402	60	2.12410

CHRYSTOPHYCEAE

<i>Other Chrysophyceae</i>			1	0	49	350	0.01721
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CRYPTOPHYCEAE

<i>Cryptomonads</i>			3	0	148	320	0.04720
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CYANOPHYCEAE

<i>Synechococcales small (iauv <20)</i>			5600	0	275347	5.25	1.44557
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DINOPHYCEAE

<i>Dinoflagellates</i>			10	0	492	20000	9.83381
<i>Gymnodiniales (small)</i>			12	0	590	500	0.29501

OTHER PHYTOPLANKTON

<i>Other small flagellates</i>			85	0	4179	80	0.33435
<i>Prasinophytes</i>			1	0	49	100	0.00492

TOTAL BGA	275347	1.44557
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	322795	15.40033

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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.

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

REVIEWED: **Adam Deliyiannis**
Biologist

DATE: **09/02/2021**

METHOD NO.: MB010/MW024VCA

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