

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	6933872 21-15798
LOCALITY :	EM2104707_009
SITE :	3.2km South of Salt Creek
SAMPLE :	Surface
DATE SAMPLED :	17/03/2021
DATE ANALYSED :	22/03/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + Excessive levels of low biovolume BGA were observed, sufficient to impair water quality. High levels of greens and diatoms were also present.

Sedgewick-Rafter Vol.(ml)	1.0274	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							

BACILLARIOPHYCEAE

Centrales		1	0	49	200	0.00973
Nitzschia		78	0	3796	400	1.51840
Pennales		1	0	49	300	0.01460
Pennales (small <20um)		6	0	292	251	0.07329

CHLOROPHYCEAE

Ankistrodesmoideae		190	0	9247	132	1.22056
Chlorococcoids (<10um)		870	0	42340	60	2.54039

CHRYSTOPHYCEAE

Other Chrysophyceae		3	0	146	350	0.05110
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CRYPTOPHYCEAE

Cryptomonads		2	0	97	320	0.03115
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CYANOPHYCEAE

Synechococcales small (iauv <20)		9600	0	467199	5.25	2.45279
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DINOPHYCEAE

Dinoflagellates		23	0	1119	20000	22.38661
Gymnodiniales (small)		5	0	243	500	0.12167

OTHER PHYTOPLANKTON

Other small flagellates		24	0	1168	80	0.09344
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TOTAL BGA	467199	2.45279
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	525745	30.51372

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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

REVIEWED: **Adam Deliyannis**
Biologist

DATE: **23/03/2021**

METHOD NO.: MB010/MW024VCA

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