

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6722410 20-45935
LOCALITY :	EM2017172-008
SITE :	3.2km South of Salt Creek
SAMPLE :	Surface
DATE SAMPLED :	30/09/2020
DATE ANALYSED :	8/10/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed. High levels of greens and low biovolume BGA are likely to impair water quality.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0218 1 : 1	Toxicogenic (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)
BACILLARIOPHYCEAE							
<i>Amphora</i>			1	0	49	500	0.02447
<i>Naviculales</i>			1	0	49	1400	0.06851
<i>Nitzschia</i>			42	0	2055	400	0.82208
<i>Pennales</i>			1	0	49	300	0.01468
CHLOROPHYCEAE							
<i>Ankistrodesmoideae</i>			270	0	13212	132	1.74398
<i>Chlamydomonads</i>			1	0	49	250	0.01223
<i>Chlorococcoids (<10um)</i>			2480	0	121354	60	7.28127
CRYPTOPHYCEAE							
<i>Cryptomonads</i>			5	0	245	320	0.07829
CYANOPHYCEAE							
<i>Planktolyngbya</i>			33	0	1615	3.8	0.00614
<i>Synechococcales small (iauv <20)</i>			13440	0	657663	5.25	3.45273
DINOPHYCEAE							
<i>Dinoflagellates</i>			2	0	98	20000	1.95733
<i>Gymnodiniales</i>			2	0	98	2000	0.19573
<i>Gymnodiniales (small)</i>			7	0	343	500	0.17127
<i>Peridinales</i>			4	0	196	5000	0.97867
OTHER PHYTOPLANKTON							
<i>Other small flagellates</i>			30	0	1468	80	0.11744
<i>Prasinophytes</i>			1	0	49	100	0.00489

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6722410 20-45935
LOCALITY :	EM2017172-008
SITE :	3.2km South of Salt Creek
SAMPLE :	Surface
DATE SAMPLED :	30/09/2020
DATE ANALYSED :	8/10/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed. High levels of greens and low biovolume BGA are likely to impair water quality.

Sedgewick-Rafter Vol.(ml)	1.0218	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							

TOTAL BGA	659278	3.45887
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	798592	16.92970

+ 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: **Adam Deliyiannis**
Biologist

REVIEWED: **Karen Simonsen (signatory)**
Biologist

DATE: **08/10/2020**

METHOD NO.: MB010/MW024CV

Page 2 of 2