

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6657126 20-37229
LOCALITY :	EM2013637_008
SITE :	3.2km South of Salt Creek
SAMPLE :	Surface
DATE SAMPLED :	5/08/2020
DATE ANALYSED :	10/08/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed. Current excessive levels of small BGA and greens will impair water quality.

Sedgewick-Rafter Vol.(ml)	1.0018	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

<i>Amphora</i>		5	0	250	500	0.12478
<i>Entomoneis</i>		0	2	4	1000	0.00399
<i>Navicula</i>		1	0	50	1400	0.06987
<i>Nitzschia</i>		36	0	1797	400	0.71871
<i>Pennales</i>		7	0	349	300	0.10481
<i>Pennales (small <20um)</i>		3	0	150	251	0.03758

CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>		590	0	29447	132	3.88700
<i>Chlorococcoids (<10um)</i>		4960	0	247554	60	14.85326

CRYPTOPHYCEAE

<i>Cryptomonads</i>		13	0	649	320	0.20763
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CYANOPHYCEAE

<i>Planktolyngbya</i>		10	0	499	3.8	0.00190
<i>Synechococcales small (iauv <20)</i>		35400	0	1766820	5.25	9.27580

DINOPHYCEAE

<i>Gymnodiniales</i>		15	0	749	2000	1.49730
<i>Gymnodiniales (small)</i>		7	0	349	500	0.17469
<i>Peridinales</i>		2	0	100	5000	0.49910

OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		14	0	699	80	0.05590
<i>Prasinophytes</i>		34	0	1697	100	0.16969

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

REVIEWED: **Adam Deliyannis**
Biologist

DATE: **11/08/2020**

METHOD NO.: MB010/MW024CV

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Concentration	1 : 1	*	20	500			
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TOTAL BGA	1767319	9.27770
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	2051163	31.68202

+ 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.

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