

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6657125 20-37229
LOCALITY :	EM2013637_007
SITE :	1.8km West 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)	1.0744	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>Nitzschia</i>		90	0	4188	400	1.67535
<i>Pennales</i>		0	15	28	300	0.00838

CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>		520	0	24200	132	3.19434
<i>Chlorococcoids (<10um)</i>		5080	0	236411	60	14.18466

CRYPTOPHYCEAE

<i>Cryptomonads</i>		12	0	558	320	0.17870
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CYANOPHYCEAE

<i>Oscillatoriales (iauv 1-100)</i>	P	0	19	35	60.8	0.00215
<i>Planktolyngbya</i>		48	0	2234	3.8	0.00849
<i>Synechococcales small (iauv <20)</i>		31200	0	1451973	5.25	7.62286

DINOPHYCEAE

<i>Gymnodiniales</i>		9	0	419	2000	0.83768
<i>Gymnodiniales (small)</i>		4	0	186	500	0.09308
<i>Peridinales</i>		3	0	140	5000	0.69806

OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		44	0	2048	80	0.16381
<i>Prasinophytes</i>		20	0	931	100	0.09308

TOTAL BGA	1454242	7.63350
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	35	0.00215
TOTAL ALGAE	1723351	28.76064

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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.