

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6722418 20-45935
LOCALITY :	EM2017172-016
SITE :	Bonney's
SAMPLE :	Surface
DATE SAMPLED :	30/09/2020
DATE ANALYSED :	8/10/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse and abundant algal community was observed. Combined levels may impact water quality.

Sedgewick-Rafter Vol.(ml)	1.0199	Toxicogenic (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>Centrales</i>		1	0	49	200	0.00980
<i>Chaetoceros</i>		178	0	8726	200	1.74527
<i>Naviculales</i>		0	7	14	1400	0.01922
<i>Nitzschia</i>		3	0	147	400	0.05883
<i>Pennales</i>		1	0	49	300	0.01471
<i>Pennales (small <20um)</i>		6	0	294	251	0.07383

CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>		12	0	588	132	0.07765
<i>Chlamydomonads</i>		7	0	343	250	0.08579
<i>Chlorococcoids</i>		3840	0	188254	500	94.12688
<i>Selenastrum</i>		4	0	196	250	0.04902

CRYPTOPHYCEAE

<i>Cryptomonads</i>		15	0	735	320	0.23532
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CYANOPHYCEAE

<i>Limnithrix/Geitlerinema/Anagnostidinema</i>	P	0	39	76	17.5	0.00134
<i>Planktolyngbya</i>		119	0	5834	3.8	0.02217
<i>Synechococcales small (iauv <20)</i>		5440	0	266693	5.25	1.40014

DINOPHYCEAE

<i>Dinoflagellates</i>		0	1	2	20000	0.03922
<i>Gymnodiniales (small)</i>		3	0	147	500	0.07354

EUGLENOPHYCEAE

<i>Eutreptia</i>		1	0	49	1000	0.04902
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OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		0	9	18	80	0.00141
<i>Prasinophytes</i>		1	0	49	100	0.00490

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

REVIEWED: **Adam Deliyannis**
Biologist

DATE: **08/10/2020**

METHOD NO.: MB010/MW024CV

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Magnification			20	500			
Fields							

TOTAL BGA	272603	1.42364
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	76	0.00134
TOTAL ALGAE	472263	98.08806

+ 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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Biologist

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