

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6695254 20-42534
LOCALITY :	EM2015594-006
SITE :	Noonameena
SAMPLE :	Surface
DATE SAMPLED :	8/09/2020
DATE ANALYSED :	11/09/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed. Current levels may impair water quality.

Sedgewick-Rafter Vol.(ml)	1.0018	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>Amphora</i>		0	2	4	500	0.00200
<i>Chaetoceros</i>		5	0	250	200	0.04991
<i>Entomoneis</i>		1	0	50	1000	0.04991
<i>Naviculales</i>		3	0	150	1400	0.20962
<i>Nitzschia</i>		2	0	100	400	0.03993
<i>Pennales</i>		5	0	250	300	0.07487
<i>Pennales (small <20um)</i>		1	0	50	251	0.01253

CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>		2	0	100	132	0.01318
<i>Chlamydomonads</i>		2	0	100	250	0.02496
<i>Chlorococcoids (<10um)</i>		13	0	649	60	0.03893

CRYPTOPHYCEAE

<i>Cryptomonads</i>		30	0	1497	320	0.47914
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CYANOPHYCEAE

<i>Oscillatoriales (iauv 1-100)</i>	P	0	128	256	60.8	0.01554
<i>Planktolyngbya</i>		34	0	1697	3.8	0.00645
<i>Synechococcales small (iauv <20)</i>		325	0	16221	5.25	0.08516

DINOPHYCEAE

<i>Gymnodiniales</i>		5	0	250	2000	0.49910
<i>Gymnodiniales (small)</i>		6	0	299	500	0.14973
<i>Peridinales</i>		1	0	50	5000	0.24955

EUGLENOPHYCEAE

<i>Euglena</i>		0	2	4	7000	0.02795
<i>Eutreptia</i>		113	0	5640	1000	5.63985

OTHER PHYTOPLANKTON

ANALYST: *Adam Deliyannis*
Biologist

REVIEWED: *Kirsten Mudie (signatory)*
Biologist

DATE: **11/09/2020**

METHOD NO.: MB010/MW024CV

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Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0018 1 : 1	Toxigenic (T) or Potentially toxic (P) *	- 200x 20	- 100x 500	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
Other small flagellates			37	0	1847	80	0.14773
Prasinophytes			3	0	150	100	0.01497
TOTAL BGA			18174		0.10714		
TOTAL TOXIGENIC BGA			0		0.00000		
TOTAL POTENTIALLY TOXIC BGA			256		0.01554		
TOTAL ALGAE			29614		7.83099		

+ 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.