

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6657133 20-37229
LOCALITY :	EM2013637-015
SITE :	Noonameena
SAMPLE :	Surface
DATE SAMPLED :	5/08/2020
DATE ANALYSED :	10/08/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed. Current levels are unlikely to impact on water quality.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0722 1 : 1	Toxigenic (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>Centrales</i>			3	0	140	200	0.02798
<i>Nitzschia</i>			1	0	47	400	0.01865
<i>Pennales</i>			3	0	140	300	0.04197
CHLOROPHYCEAE							
<i>Ankistrodesmoideae</i>			3	0	140	132	0.01847
<i>Chlamydomonads</i>			1	0	47	250	0.01166
<i>Chlorococcoids (<10um)</i>			55	0	2565	60	0.15389
<i>Oocystis</i>			1	0	47	300	0.01399
<i>Selenastrum</i>			5	0	233	250	0.05829
CHRYSTOPHYCEAE							
<i>Other Chrysophyceae</i>			4	0	187	350	0.06529
CRYPTOPHYCEAE							
<i>Cryptomonads</i>			31	0	1446	320	0.46260
CYANOPHYCEAE							
<i>Planktolyngbya</i>			15	0	699	3.8	0.00266
<i>Synechococcales small (iauv <20)</i>			5	0	233	5.25	0.00122
DINOPHYCEAE							
<i>Gymnodiniales (small)</i>			1	0	47	500	0.02332
<i>Peridinales</i>			0	1	2	5000	0.00933
EUGLENOPHYCEAE							
<i>Eutreptia</i>			1	0	47	1000	0.04663
OTHER PHYTOPLANKTON							
<i>Other small flagellates</i>			49	0	2285	80	0.18280
<i>Prasinophytes</i>			47	0	2192	100	0.21918

ANALYST: *Adam Deliyannis*
Biologist

REVIEWED: *Kirsten Mudie (signatory)*
Biologist

DATE: **11/08/2020**

METHOD NO.: MB010/MW024CV

Page 1 of 2

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6657133 20-37229
LOCALITY :	EM2013637-015
SITE :	Noonameena
SAMPLE :	Surface
DATE SAMPLED :	5/08/2020
DATE ANALYSED :	10/08/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed. Current levels are unlikely to impact on water quality.

Sedgewick-Rafter Vol.(ml)	1.0722	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	932	0.00388
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	10497	1.35792

+ 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.