

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	6956309 21-18638
LOCALITY :	EM2106129-006
SITE :	Noonameena
SAMPLE :	Surface
DATE SAMPLED :	8/04/2021
DATE ANALYSED :	13/04/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was present in levels that are unlikely to impair water quality.

Sedgewick-Rafter Vol.(ml)	1.0208	Toxigenic (T) or Potentially toxic (P)			Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
Concentration	1 : 1	*	- 200x	- 100x			
Magnification			20	500			
Fields							

BACILLARIOPHYCEAE

<i>Amphora</i>		1	0	49	500	0.02449
<i>Centrales</i>		2	0	98	200	0.01959
<i>Entomoneis</i>		5	0	245	1000	0.24491
<i>Naviculales</i>		1	0	49	1400	0.06857
<i>Nitzschia</i>		2	0	98	400	0.03918
<i>Pennales</i>		1	0	49	300	0.01469
<i>Pennales (small <20um)</i>		7	0	343	251	0.08606
<i>Pleurosigma</i>		0	3	6	2000	0.01176

CHLOROPHYCEAE

<i>Chlorococcoids (<10um)</i>		30	0	1469	60	0.08817
<i>Staurostrum</i>		0	1	2	2000	0.00392

CRYPTOPHYCEAE

<i>Cryptomonads</i>		2	0	98	320	0.03135
---------------------	--	---	---	----	-----	---------

CYANOPHYCEAE

<i>Limnocooccus (Chroococcus limneticus)</i>		0	2	4	450	0.00176
<i>Limnithrix/Geitlerinema/Anagnostidinema</i>	P	0	23	45	17.5	0.00079
<i>Planktolyngbya</i>		6	0	294	3.8	0.00112
<i>Synechococcales small (iauv <20)</i>		280	0	13715	5.25	0.07200

OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		16	0	784	80	0.06270
--------------------------------	--	----	---	-----	----	---------

TOTAL BGA	14058	0.07567
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	45	0.00079
TOTAL ALGAE	17348	0.77106

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

REVIEWED: **Lauren Minett (signatory)**
Biologist

DATE: **15/04/2021**

METHOD NO.: MB010/MW024VCA

Page 1 of 2

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	6956309 21-18638
LOCALITY :	EM2106129-006
SITE :	Noonameena
SAMPLE :	Surface
DATE SAMPLED :	8/04/2021
DATE ANALYSED :	13/04/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was present in levels that are unlikely to impair water quality.

Sedgewick-Rafter Vol.(ml)	1.0208	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							

+ 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.

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

REVIEWED: **Lauren Minett (signatory)**
Biologist

DATE: **15/04/2021**

METHOD NO.: MB010/MW024VCA

Page 2 of 2