

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	6750303 20-50047
LOCALITY :	EM2018692-012
SITE :	Noonameena
SAMPLE :	Surface
DATE SAMPLED :	21/10/2020
DATE ANALYSED :	26/10/2020
SAMPLED BY :	Sample analysed as received

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

Sedgewick-Rafter Vol.(ml)	1.0169	Toxicogenic (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							

BACILLARIOPHYCEAE

<i>Licmophora</i>		1	0	49	850	0.04179
<i>Naviculales</i>		1	0	49	1400	0.06884
<i>Nitzschia</i>		0	4	8	400	0.00315
<i>Pennales</i>		0	1	2	300	0.00059
<i>Pennales (small <20um)</i>		4	0	197	251	0.04937

CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>		2	0	98	132	0.01298
<i>Chlorococcoids (<10um)</i>		184	0	9047	60	0.54283
<i>Selenastrum</i>		16	0	787	250	0.19668

CRYPTOPHYCEAE

<i>Cryptomonads</i>		2	0	98	320	0.03147
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CYANOPHYCEAE

<i>Oscillatoriales (iauv 1-100)</i>	P	0	34	67	60.8	0.00407
<i>Synechococcales small (iauv <20)</i>		910	0	44744	5.25	0.23491

DINOPHYCEAE

<i>Dinoflagellates</i>		0	2	4	20000	0.07867
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OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		5	0	246	80	0.01967
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TOTAL BGA	44811	0.23897
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	67	0.00407
TOTAL ALGAE	55396	1.28499

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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.