

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7684100 22-64966
LOCALITY :	EM2216763-008
SITE :	Snipe Point
SAMPLE :	Surface
DATE SAMPLED :	31/08/2022
DATE ANALYSED :	6/09/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse range of algae was observed. Levels may impact on water quality.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.02 1 : 1	Toxicogenic (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)
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BACILLARIOPHYCEAE

<i>Centrales</i>		1	0	49	200	0.00980
<i>Pennales</i>		3	0	147	300	0.04412
<i>Pennales (small <20um)</i>		2	0	98	251	0.02461

CHLOROPHYCEAE

<i>Chlorococcoids</i>		1140	0	55882	500	27.94118
<i>Didymocystis</i>		2	0	98	41	0.00402
<i>Monoraphidium (small)</i>		110	0	5392	16	0.08627

CRYPTOPHYCEAE

<i>Chroomonas</i>		3	0	147	60	0.00882
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CYANOPHYCEAE

<i>Synechococcales small (iauv <20)</i>		1340	0	65686	5.25	0.34485
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DINOPHYCEAE

<i>Gymnodiniales</i>		0	16	31	2000	0.06275
<i>Gymnodiniales (small)</i>		1	0	49	500	0.02451
<i>Peridinales</i>		0	1	2	5000	0.00980

OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		15	0	735	80	0.05882
<i>Prasinophytes</i>		3	0	147	100	0.01471

TOTAL BGA	65686	0.34485
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	128463	28.63426

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Sedgewick-Rafter Vol.(ml)	1.02	Toxigenic (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							

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

REVIEWED: **Louise Ungemach (signatory)**
Biologist

DATE: **06/09/2022**

METHOD NO.: MB010/MW024VCA

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