

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7484483 22-53363
LOCALITY :	EM2212384-008
SITE :	Snipe Point
SAMPLE :	Surface
DATE SAMPLED :	30/06/2022
DATE ANALYSED :	7/07/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + Current high levels of algae are sufficient to impair water quality.

Sedgewick-Rafter Vol.(ml)	1.0274	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>		1	0	49	500	0.02433
<i>Entomoneis</i>		0	1	2	1000	0.00195
<i>Nitzschia</i>		36	0	1752	400	0.70080
<i>Pennales</i>		1	0	49	300	0.01460
<i>Pennales (small <20um)</i>		2	0	97	251	0.02443

CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>		640	0	31147	132	4.11135
<i>Chlamydomonads</i>		11	0	535	250	0.13383
<i>Chlorococcoids (<10um)</i>		7420	0	361106	60	21.66634
<i>Monoraphidium (small)</i>		5	0	243	16	0.00389

CRYPTOPHYCEAE

<i>Cryptomonads</i>		1	0	49	320	0.01557
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CYANOPHYCEAE

<i>Synechococcales small (iauv <20)</i>		51800	0	2520927	5.25	13.23486
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DINOPHYCEAE

<i>Dinoflagellates</i>		10	0	487	20000	9.73331
<i>Gymnodiniales</i>		6	0	292	2000	0.58400
<i>Gymnodiniales (small)</i>		20	0	973	500	0.48667
<i>Peridinales</i>		0	3	6	5000	0.02920

OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		3080	0	149893	80	11.99143
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ANALYST: **Kirsten Mudie (signatory)**
Biologist

REVIEWED: **Karen Simonsen (signatory)**
Biologist

DATE: **07/07/2022**

METHOD NO.: MB010/MW024VCA

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Sedgewick-Rafter Vol.(ml)	1.0274	Toxigenic (T) or Potentially toxic (P)					
Concentration	1 : 1	*	- 200x	- 100x	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
Magnification			20	500			
Fields							

TOTAL BGA	2520927	13.23486
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	3067607	62.75657

+ 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.

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