

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7394985 22-15545
LOCALITY :	EM2204816-013
SITE :	Snipe Point
SAMPLE :	Surface
DATE SAMPLED :	17/03/2022
DATE ANALYSED :	25/03/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderately diverse algal community was observed. Current algal levels are sufficient to impair water quality (eg: discolouration).

Sedgewick-Rafter Vol.(ml)	1.0199	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							

BACILLARIOPHYCEAE

<i>Nitzschia</i>		880	0	43141	400	17.25659
<i>Pennales</i>		1	0	49	300	0.01471
<i>Pennales (small <20um)</i>		20	0	980	251	0.24610

CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>		2205	0	108099	132	14.26905
<i>Carteria</i>		3	0	147	300	0.04412
<i>Chlorococcoids (<10um)</i>		6580	0	322581	60	19.35484
<i>Oocystis</i>		2	0	98	300	0.02941

CRYPTOPHYCEAE

<i>Cryptomonads</i>		6	0	294	320	0.09413
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CYANOPHYCEAE

<i>Limnithrix/Geitlerinema/Anagnostidinema</i>	P	0	120	235	17.5	0.00412
<i>Synechococcales small (iauv <20)</i>		36820	0	1805079	5.25	9.47666

DINOPHYCEAE

<i>Gymnodiniales</i>		1	0	49	2000	0.09805
<i>Gymnodiniales (small)</i>		1	0	49	500	0.02451

OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		10	0	490	80	0.03922
<i>Raphidophytes</i>		1	0	49	7000	0.34317

TOTAL BGA	1805314	9.48078
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	235	0.00412
TOTAL ALGAE	2281340	61.29469

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

REVIEWED: **Adam Deliyiannis (signatory)**
Biologist

DATE: **25/03/2022**

METHOD NO.: MB010/MW024VCA

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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.

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