

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7428783 22-19601
LOCALITY :	EM2207234-015
SITE :	Snipe Point
SAMPLE :	Surface
DATE SAMPLED :	21/04/2022
DATE ANALYSED :	27/04/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + High levels of low biovolume BGA, diatoms and greens will impair water quality.

Sedgewick-Rafter Vol.(ml)	1.036	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>Nitzschia</i>		920	0	44402	400	17.76062
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CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>		2020	0	97490	132	12.86873
<i>Carteria</i>		3	0	145	300	0.04344
<i>Chlorococcoids (<10um)</i>		8820	0	425676	60	25.54054
<i>Oocystis</i>		10	0	483	300	0.14479

CRYPTOPHYCEAE

<i>Cryptomonads</i>		14	0	676	320	0.21622
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CYANOPHYCEAE

<i>Limnothrix/Geitlerinema/Anagnostidinema</i>	P	0	75	145	17.5	0.00253
<i>Synechococcales small (iauv <20)</i>		36400	0	1756757	5.25	9.22297

DINOPHYCEAE

<i>Gymnodiniales</i>		24	0	1158	2000	2.31660
<i>Gymnodiniales (small)</i>		2	0	97	500	0.04826

OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		10	0	483	80	0.03861
<i>Raphidophytes</i>		1	0	48	7000	0.33784

TOTAL BGA	1756902	9.22551
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	145	0.00253
TOTAL ALGAE	2327560	68.54114

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

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

DATE: **27/04/2022**

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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