

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7328748 22-06265
LOCALITY :	EM2201088-019
SITE :	Tilley D/S Nth O/L
SAMPLE :	Surface
DATE SAMPLED :	20/01/2022
DATE ANALYSED :	2/02/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + Current low levels of algae are unlikely to influence water quality.

Sedgewick-Rafter Vol.(ml)	1.036	Toxicogenic (T) or Potentially toxic (P)			Total Cell Count (cells/mL)	Individual Algal Unit Volume (um ³)	Total Biovolume (mm ³ /L)
Concentration	1 : 1	*	- 200x	- 100x			
Magnification			20	500			
Fields							

BACILLARIOPHYCEAE

Centrales		1	0	48	200	0.00965
Chaetoceros		2	0	97	200	0.01931
Pennales		2	0	97	300	0.02896

CHLOROPHYCEAE

Chlorococcoids (<10um)		12	0	579	60	0.03475
Monoraphidium (small)		44	0	2124	16	0.03398
Oocystis		7	0	338	300	0.10135

CRYPTOPHYCEAE

Cryptomonads		0	1	2	320	0.00062
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CYANOPHYCEAE

Pseudanabaena		34	0	1641	12.5	0.02051
Synechococcales small (iauv <20)		120	0	5792	5.25	0.03041

DINOPHYCEAE

Gymnodiniales		3	0	145	2000	0.28958
Gymnodiniales (small)		1	0	48	500	0.02413
Peridinales		1	0	48	5000	0.24131

OTHER PHYTOPLANKTON

Other small flagellates		2	0	97	80	0.00772
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TOTAL BGA	7433	0.05092
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	11056	0.84227

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

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

DATE: **02/02/2022**

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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.

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

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

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