

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7428789 22-19601
LOCALITY :	EM2207234-021
SITE :	Tilley U/S Morella
SAMPLE :	Surface
DATE SAMPLED :	21/04/2022
DATE ANALYSED :	27/04/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderately diverse range of algal taxa were observed. Current levels are unlikely to impact water quality.

Sedgewick-Rafter Vol.(ml)	1.0169	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

Pennales		1	0	49	300	0.01475
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CHLOROPHYCEAE

Ankistrodesmoideae		1	0	49	132	0.00649
Chlorococcoids (<10um)		6	0	295	60	0.01770

CYANOPHYCEAE

Planktolyngbya		30	0	1475	3.8	0.00561
Pseudanabaena		0	42	83	12.5	0.00103
Synechococcales small (iauv <20)		38	0	1868	5.25	0.00981

DINOPHYCEAE

Dinoflagellates		0	1	2	20000	0.03934
Peridinales		0	1	2	5000	0.00983

TOTAL BGA	3426	0.01645
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	3823	0.10456

+ 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: *Adam Deliyiannis (signatory)* REVIEWED: *Kirsten Mudie (signatory)*
Biologist Biologist

DATE: 27/04/2022

METHOD NO.: MB010/MW024VCA

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