

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7609397 22-60564
LOCALITY :	EM2215131-007
SITE :	Tilley D/S Nth O/L
SAMPLE :	Surface
DATE SAMPLED :	9/08/2022
DATE ANALYSED :	15/08/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa were observed. Current levels are unlikely to influence water quality.

Sedgewick-Rafter Vol.(ml)	1.0116	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

Centrales	1	0	49	200	0.00989
Entomoneis	0	2	4	1000	0.00395
Pennales	2	0	99	300	0.02966

CHLOROPHYCEAE

Chlorococcoids (<10um)	8	0	395	60	0.02372
Monoraphidium (small)	12	0	593	16	0.00949
Scenedesmus	0	8	16	250	0.00395

CHRYSOPHYCEAE

Other Chrysophyceae	1	0	49	350	0.01730
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CYANOPHYCEAE

Synechococcales small (iauv <20)	12	0	593	5.25	0.00311
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OTHER PHYTOPLANKTON

Other small flagellates	2	0	99	80	0.00791
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TOTAL BGA	593	0.00311
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	1897	0.10899

+ 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: *Lauren Minett (signatory)*
Biologist Biologist

DATE: 15/08/2022

METHOD NO.: MB010/MW024VCA

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