

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	187824 22-45580
LOCALITY :	EM2209350-020
SITE :	Tilley Watercourse
SAMPLE :	Surface
DATE SAMPLED :	19/05/2022
DATE ANALYSED :	24/05/2022
SAMPLED BY :	Sample analysed as received

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

Sedgewick-Rafter Vol.(ml)	1.027	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

Centrales	1	0	49	200	0.00974
Pennales	0	1	2	300	0.00058
Pennales (small <20um)	1	0	49	251	0.01222

CHLOROPHYCEAE

Chlamydomonads	1	0	49	250	0.01217
Chlorococcoids (<10um)	4	0	195	60	0.01168
Monoraphidium (small)	3	0	146	16	0.00234

CYANOPHYCEAE

Pseudanabaena	2	0	97	12.5	0.00122
Synechococcales small (iauv <20)	4	0	195	5.25	0.00102

DINOPHYCEAE

Gymnodiniales	1	0	49	2000	0.09737
Peridinales	0	1	2	5000	0.00974

TOTAL BGA	292	0.00224
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	833	0.15808

+ 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 Deliyiannis (signatory)**
Biologist

DATE: **24/05/2022**

METHOD NO.: MB010/MW024VCA

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