

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7791211 22-70933
LOCALITY :	EM2218952-010
SITE :	1.8km W of Salt Ck
SAMPLE :	Surface
DATE SAMPLED :	29/09/2022
DATE ANALYSED :	5/10/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa were observed. Current levels may impact water quality.

Sedgewick-Rafter Vol.(ml)	1.0194	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	0.00981
Pennales		2	0	98	300	0.02943
Pennales (small <20um)		3	0	147	251	0.03693

CHLOROPHYCEAE

Chlorococcoids (<10um)		1310	0	64253	60	3.85521
Monoraphidium (small)		16	0	785	16	0.01256

CYANOPHYCEAE

Planktolyngbya		40	0	1962	3.8	0.00746
Synechococcales small (iauv <20)		8320	0	408083	5.25	2.14244

DINOPHYCEAE

Gymnodiniales (small)		1	0	49	500	0.02452
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OTHER PHYTOPLANKTON

Other small flagellates		22	0	1079	80	0.08633
Prasinophytes		2	0	98	100	0.00981

TOTAL BGA	410045	2.14989
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	476603	6.21449

+ 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 Deliyannis (signatory)**
Biologist

REVIEWED: **Louise Ungemach (signatory)**
Biologist

DATE: **06/10/2022**

METHOD NO.: MB010/MW024VCA

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