

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7484450 22-53362
LOCALITY :	EM2212385-003
SITE :	Long Point
SAMPLE :	Surface
DATE SAMPLED :	29/06/2022
DATE ANALYSED :	5/07/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + Limited algal diversity was observed with current levels unlikely to influence water quality.

Sedgewick-Rafter Vol.(ml)	1.024	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	0	2	4	300	0.00117
Pennales (small <20um)	1	0	49	251	0.01226

CHLOROPHYCEAE

Chlorococcoids (<10um)	1	0	49	60	0.00293
Monoraphidium (small)	2	0	98	16	0.00156

CYANOPHYCEAE

Synechococcales small (iauv <20)	11	0	537	5.25	0.00282
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DINOPHYCEAE

Gymnodiniales	0	1	2	2000	0.00391
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OTHER PHYTOPLANKTON

Other small flagellates	2	0	98	80	0.00781
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TOTAL BGA	537	0.00282
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	837	0.03246

+ 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: **Thao Nguyen (signatory)**
Biologist

DATE: **07/07/2022**

METHOD NO.: MB010/MW024VCA

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