

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7791208 22-70933
LOCALITY :	EM2218952_007
SITE :	Sth Policeman Point
SAMPLE :	Surface
DATE SAMPLED :	29/09/2022
DATE ANALYSED :	10/10/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + High levels of small BGA and greens are likely to have an impact on water quality.

Sedgewick-Rafter Vol.(ml)	1.0032	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		4	0	199	200	0.03987
Naviculales		1	0	50	1400	0.06978
Pennales		4	0	199	300	0.05981
Pennales (small <20um)		3	0	150	251	0.03753

CHLOROPHYCEAE

Ankistrodesmoideae		580	0	28907	132	3.81579
Chlamydomonads		15	0	748	250	0.18690
Chlorococcoids (<10um)		3480	0	173445	60	10.40670

CRYPTOPHYCEAE

Cryptomonads		28	0	1396	320	0.44657
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CYANOPHYCEAE

Synechococcales small (iauv <20)		9400	0	468501	5.25	2.45963
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DINOPHYCEAE

Dinoflagellates		1	0	50	20000	0.99681
Gymnodiniales		3	0	150	2000	0.29904

OTHER PHYTOPLANKTON

Other small flagellates		720	0	35885	80	2.87081
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TOTAL BGA	468501	2.45963
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	709680	21.68924

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+ 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.