

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7116653 21-39298
LOCALITY :	EM2115770-009
SITE :	Parnka Point
SAMPLE :	Surface
DATE SAMPLED :	9/08/2021
DATE ANALYSED :	13/08/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed. High levels of the BGA Synechococcales are likely to impact water quality.

Sedgewick-Rafter Vol.(ml)	1.0722	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

<i>Nitzschia</i>		5	0	233	400	0.09327
<i>Pennales</i>		3	0	140	300	0.04197
<i>Pennales (small <20um)</i>		3	0	140	251	0.03511

CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>		126	0	5876	132	0.77560
<i>Chlorococcoids (<10um)</i>		91	0	4244	60	0.25462
<i>Oocystis</i>		1	0	47	300	0.01399

CYANOPHYCEAE

<i>Synechococcales small (iauv <20)</i>		25600	0	1193807	5.25	6.26749
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DINOPHYCEAE

<i>Dinoflagellates</i>		0	2	4	20000	0.07461
<i>Gymnodiniales</i>		1	0	47	2000	0.09327
<i>Gymnodiniales (small)</i>		5	0	233	500	0.11658

OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		19	0	886	80	0.07088
<i>Raphidophytes</i>		3	0	140	7000	0.97929

TOTAL BGA	1193807	6.26749
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	1205797	8.81669

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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.