

## ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7116658 21-39298
LOCALITY :	EM2115770-014
SITE :	Snipe 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. Current levels are likely to impact water quality.

Sedgewick-Rafter Vol.(ml)	1.0255	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>Centrales</i>		1	0	49	200	0.00975
<i>Cocconeis</i>		1	0	49	450	0.02194
<i>Entomoneis</i>		0	1	2	1000	0.00195
<i>Hantzschia</i>		0	2	4	500	0.00195
<i>Nitzschia</i>		16	0	780	400	0.31204
<i>Pennales (small &lt;20um)</i>		12	0	585	251	0.14686

### CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>		39	0	1902	132	0.25100
<i>Chlorococcoids (&lt;10um)</i>		68	0	3315	60	0.19893

### CYANOPHYCEAE

<i>Synechococcales small (iauv &lt;20)</i>		33440	0	1630424	5.25	8.55973
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### DINOPHYCEAE

<i>Gymnodiniales</i>		0	1	2	2000	0.00390
<i>Gymnodiniales (small)</i>		18	0	878	500	0.43881

### OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		9	0	439	80	0.03510
<i>Raphidophytes</i>		10	0	488	7000	3.41297

TOTAL BGA	1630424	8.55973
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	1638917	13.39493

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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  $\beta$ -N-methylamino-L-alanine (BMAA) and its analogues. Therefore all cyanobacteria could be considered to pose a level of risk.