

## ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7056266 21-31436
LOCALITY :	EM2111820-004
SITE :	Snipe Point
SAMPLE :	Surface
DATE SAMPLED :	21/06/2021
DATE ANALYSED :	25/06/2021
SAMPLED BY :	Sample analysed as received

**COMMENTS: +** A diverse community of algal taxa was observed and low biovolume BGA Synechococcales were most numerous. Current levels are likely to impair water quality.

Sedgewick-Rafter Vol.(ml)	1.0199	Toxigenic (T) or Potentially toxic (P)			Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
Concentration	1 : 1	*	- 200x	- 100x			
Magnification			20	500			
Fields							

### BACILLARIOPHYCEAE

<i>Asterionellopsis</i>		1	0	49	500	0.02451
<i>Nitzschia</i>		155	0	7599	400	3.03951
<i>Pennales</i>		3	0	147	300	0.04412

### CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>		218	0	10687	132	1.41073
<i>Chlorococcoids (&lt;10um)</i>		73	0	3579	60	0.21473

### CRYPTOPHYCEAE

<i>Cryptomonads</i>		6	0	294	320	0.09413
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### CYANOPHYCEAE

<i>Planktolyngbya</i>		37	0	1814	3.8	0.00689
<i>Synechococcales small (iauv &lt;20)</i>		15120	0	741249	5.25	3.89156

### DINOPHYCEAE

<i>Dinoflagellates</i>		1	0	49	20000	0.98049
<i>Gymnodiniales (small)</i>		44	0	2157	500	1.07854
<i>Peridinales</i>		1	0	49	5000	0.24512

### OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		10	0	490	80	0.03922
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TOTAL BGA	743063	3.89845
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	768163	11.06955

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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.

ANALYST: **Adam Deliyannis**  
Biologist

REVIEWED: **Karen Simonsen (signatory)**  
Biologist

DATE: **25/06/2021**

METHOD NO.: MB010/MW024VCA

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