

## ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	187819 22-45580
LOCALITY :	EM2209350-015
SITE :	Snipe Point
SAMPLE :	Surface
DATE SAMPLED :	19/05/2022
DATE ANALYSED :	24/05/2022
SAMPLED BY :	Sample analysed as received

**COMMENTS:** + A diverse community of algal taxa were observed. Current levels are likely to influence water quality.

Sedgewick-Rafter Vol.(ml)	1.0327	Toxicogenic (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>	90	0	4358	400	1.74300
<i>Pennales</i>	2	0	97	300	0.02905

### CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>	69	0	3341	132	0.44098
<i>Carteria</i>	4	0	194	300	0.05810
<i>Chlorococcoids (&lt;10um)</i>	400	0	19367	60	1.16200

### CHRYSOPHYCEAE

<i>Other Chrysophyceae</i>	1	0	48	350	0.01695
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### CRYPTOPHYCEAE

<i>Cryptomonads</i>	31	0	1501	320	0.48029
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### CYANOPHYCEAE

<i>Synechococcales small (iauv &lt;20)</i>	9760	0	472548	5.25	2.48088
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### DINOPHYCEAE

<i>Dinoflagellates</i>	1	0	48	20000	0.96834
<i>Gymnodiniales</i>	8	0	387	2000	0.77467
<i>Gymnodiniales (small)</i>	1	0	48	500	0.02421
<i>Peridinales</i>	6	0	291	5000	1.45250

### OTHER PHYTOPLANKTON

<i>Other small flagellates</i>	17	0	823	80	0.06585
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TOTAL BGA	472548	2.48088
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	503051	9.69681

ANALYST: *Adam Deliyannis (signatory)* REVIEWED: *Louise Ungemach (signatory)*  
Biologist Biologist

DATE: 25/05/2022

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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 (signatory)* REVIEWED: *Louise Ungemach (signatory)*  
Biologist Biologist

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