

## ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7366813 22-11365
LOCALITY :	EM2203091-019
SITE :	3.2km Sth of Salt Ck
SAMPLE :	Surface
DATE SAMPLED :	23/02/2022
DATE ANALYSED :	28/02/2022
SAMPLED BY :	Sample analysed as received

**COMMENTS:** + A diverse range of algal taxa were observed. Current levels may impact water quality.

Sedgewick-Rafter Vol.(ml)	1.0242	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>		492	0	24019	400	9.60750
<i>Pennales</i>		4	0	195	300	0.05858
<i>Pennales (small &lt;20um)</i>		4	0	195	251	0.04901

### CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>		3110	0	151826	132	20.04101
<i>Chlorococcoids (&lt;10um)</i>		1640	0	80062	60	4.80375

### CYANOPHYCEAE

<i>Synechococcales small (iauv &lt;20)</i>		12480	0	609256	5.25	3.19859
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### DINOPHYCEAE

<i>Gymnodiniales</i>		1	0	49	2000	0.09764
<i>Gymnodiniales (small)</i>		1	0	49	500	0.02441

### EUGLENOPHYCEAE

<i>Trachelomonas</i>		0	1	2	3000	0.00586
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### OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		45	0	2197	80	0.17575
<i>Raphidophytes</i>		3	0	146	7000	1.02519

TOTAL BGA	609256	3.19859
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	867996	39.08729

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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

DATE: **28/02/2022**