

## ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7545137 22-57032
LOCALITY :	EM2213883-010
SITE :	3.2km Sth of Salt Ck
SAMPLE :	Surface
DATE SAMPLED :	21/07/2022
DATE ANALYSED :	25/07/2022
SAMPLED BY :	Sample analysed as received

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

Sedgewick-Rafter Vol.(ml)	1.0272	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>	1	0	49	400	0.01947
<i>Pennales</i>	4	0	195	300	0.05841
<i>Pennales (small &lt;20um)</i>	2	0	97	251	0.02444

### CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>	296	0	14408	132	1.90187
<i>Chlorococcoids (&lt;10um)</i>	1590	0	77395	60	4.64369

### CYANOPHYCEAE

<i>Pseudanabaena</i>	0	16	31	12.5	0.00039
<i>Synechococcales small (iauv &lt;20)</i>	13200	0	642523	5.25	3.37325

### DINOPHYCEAE

<i>Dinoflagellates</i>	1	0	49	20000	0.97352
<i>Gymnodiniales</i>	30	0	1460	2000	2.92056
<i>Gymnodiniales (small)</i>	22	0	1071	500	0.53544
<i>Peridinales</i>	1	0	49	5000	0.24338

### OTHER PHYTOPLANKTON

<i>Other small flagellates</i>	212	0	10319	80	0.82555
<i>Prasinophytes</i>	1	0	49	100	0.00487
<i>Raphidophytes</i>	2	0	97	7000	0.68146

TOTAL BGA	642554	3.37364
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	747792	16.20629

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

DATE: 26/07/2022

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

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