

## ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7152213 21-43664
LOCALITY :	EM2118068-004
SITE :	Mark Point
SAMPLE :	Surface
DATE SAMPLED :	9/09/2021
DATE ANALYSED :	14/09/2021
SAMPLED BY :	Sample analysed as received

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

Sedgewick-Rafter Vol.(ml)	1.036	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>Chaetoceros</i>	84	0	4054	200	0.81081
<i>Naviculales</i>	0	1	2	1400	0.00270
<i>Pennales (small &lt;20um)</i>	1	0	48	251	0.01211

### CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>	2	0	97	132	0.01274
<i>Chlamydomonads</i>	1	0	48	250	0.01207
<i>Chlorococcoids (&lt;10um)</i>	13	0	627	60	0.03764
<i>Crucigenia</i>	4	0	193	30	0.00579
<i>Lagerheimia</i>	2	0	97	500	0.04826
<i>Oocystis</i>	6	0	290	300	0.08687
<i>Planctonema</i>	13	0	627	800	0.50193
<i>Scenedesmus</i>	6	0	290	250	0.07239
<i>Tetrastrum</i>	4	0	193	40	0.00772

### CYANOPHYCEAE

<i>Limnolyngbya (Planktolyngbya circumcreta)</i>	119	0	5743	4.9	0.02814
<i>Planktolyngbya</i>	30	0	1448	3.8	0.00550
<i>Synechococcales small (iauv &lt;20)</i>	156	0	7529	5.25	0.03953

### OTHER PHYTOPLANKTON

<i>Other small flagellates</i>	3	0	145	80	0.01158
<i>Prasinophytes</i>	1	0	48	100	0.00483
<i>Raphidophytes</i>	2	0	97	7000	0.67568

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Fields							

TOTAL BGA	14720	0.07317
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	21576	2.37631

+ 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: **Kirsten Mudie (signatory)**  
Biologist

DATE: **14/09/2021**

METHOD NO.: MB010/MW024VCA

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