

## ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7609353 22-60563
LOCALITY :	EM2215130-002
SITE :	Mark Point
SAMPLE :	Surface
DATE SAMPLED :	8/08/2022
DATE ANALYSED :	12/08/2022
SAMPLED BY :	Sample analysed as received

**COMMENTS:** + A diverse algal community was observed, but current combined levels are insufficient to impact water quality.

Sedgewick-Rafter Vol.(ml)	1.0578	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>Aulacoseira</i>		2	0	95	2860	0.27037
<i>Centrales</i>		18	0	851	200	0.17016
<i>Pennales (small &lt;20um)</i>		2	0	95	251	0.02373

### CHLOROPHYCEAE

<i>Chlamydomonads</i>		5	0	236	250	0.05908
<i>Chlorococcoids (&lt;10um)</i>		40	0	1891	60	0.11344
<i>Crucigenia</i>		72	0	3403	30	0.10210
<i>Didymocystis</i>		12	0	567	41	0.02326
<i>Monoraphidium (small)</i>		22	0	1040	16	0.01664
<i>Monoraphidium (large)</i>		4	0	189	400	0.07563
<i>Oocystis (small)</i>		16	0	756	100	0.07563
<i>Planctonema</i>		11	0	520	800	0.41596
<i>Scenedesmus</i>		16	0	756	250	0.18907
<i>Tetrastrum</i>		24	0	1134	40	0.04538

### CRYPTOPHYCEAE

<i>Cryptomonads</i>		12	0	567	320	0.18151
<i>Cryptomonas</i>		0	1	2	320	0.00061

### CYANOPHYCEAE

<i>Planktolyngbya</i>		48	0	2269	3.8	0.00862
<i>Romeria</i>		6	0	284	31	0.00879
<i>Synechococcales small (iauv &lt;20)</i>		20	0	945	5.25	0.00496

### DINOPHYCEAE

<i>Gymnodiniales (small)</i>		0	1	2	500	0.00095
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ANALYST: **Karen Simonsen (signatory)**  
Biologist

REVIEWED: **Adam Deliyannis (signatory)**  
Biologist

DATE: **12/08/2022**

METHOD NO.: MB010/MW024VCA

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Sedgewick-Rafter Vol.(ml)	1.0578	Toxigenic (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							

TOTAL BGA	3498	0.02238
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	15602	1.78589

+ 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.

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Biologist

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