

## ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	6781614 20-54272
LOCALITY :	EM2020558_005
SITE :	Long Point
SAMPLE :	Surface
DATE SAMPLED :	17/11/2020
DATE ANALYSED :	23/11/2020
SAMPLED BY :	Sample analysed as received

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

Sedgewick-Rafter Vol.(ml)	1.0011	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>		16	0	799	200	0.15982
<i>Nitzschia</i>		0	9	18	400	0.00719
<i>Pennales</i>		2	0	100	300	0.02997
<i>Pennales (small &lt;20um)</i>		1	0	50	251	0.01254

### CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>		1	0	50	132	0.00659
<i>Chlorococcoids (&lt;10um)</i>		7	0	350	60	0.02098
<i>Oocystis</i>		1	0	50	300	0.01498
<i>Planctonema</i>		0	20	40	800	0.03196
<i>Selenastrum</i>		3	0	150	250	0.03746

### CRYPTOPHYCEAE

<i>Cryptomonads</i>		2	0	100	320	0.03196
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### CYANOPHYCEAE

<i>Oscillatoriales (iauv 1-100)</i>	P	0	36	72	60.8	0.00437
<i>Planktolyngbya</i>		12	0	599	3.8	0.00228
<i>Synechococcales small (iauv &lt;20)</i>		61	0	3047	5.25	0.01599

### DINOPHYCEAE

<i>Dinoflagellates</i>		0	1	2	20000	0.03996
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### EUGLENOPHYCEAE

<i>Eutreptia</i>		0	2	4	1000	0.00400
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### OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		17	0	849	80	0.06793
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Sedgewick-Rafter Vol.(ml)	1.0011	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			
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Fields							

TOTAL BGA	3718	0.02265
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	72	0.00437
TOTAL ALGAE	6280	0.48798

+ 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**  
Biologist

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

DATE: **23/11/2020**

METHOD NO.: MB010/MW024VCA

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