

## ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	6750305 20-50047
LOCALITY :	EM2018692_014
SITE :	Parnka Point
SAMPLE :	Surface
DATE SAMPLED :	21/10/2020
DATE ANALYSED :	26/10/2020
SAMPLED BY :	Sample analysed as received

**COMMENTS:** + Excessive levels of small BGA and greens dominated the sample. Water quality will be impaired.

Sedgewick-Rafter Vol.(ml)	1.0268	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	0.01948
<i>Pennales (small &lt;20um)</i>		20	0	974	251	0.24445
<i>Pleurosigma</i>		0	2	4	2000	0.00779

### CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>		660	0	32139	132	4.24231
<i>Chlorococcoids (&lt;10um)</i>		7800	0	379821	60	22.78925

### CHRYSOPHYCEAE

<i>Other Chrysophyceae</i>		20	0	974	350	0.34086
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### CRYPTOPHYCEAE

<i>Cryptomonads</i>		10	0	487	320	0.15582
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### CYANOPHYCEAE

<i>Planktolyngbya</i>		220	0	10713	3.8	0.04071
<i>Synechococcales small (iauv &lt;20)</i>		32400	0	1577717	5.25	8.28302

### DINOPHYCEAE

<i>Dinoflagellates</i>		4	0	195	20000	3.89560
<i>Gymnodiniales</i>		1	0	49	2000	0.09739
<i>Gymnodiniales (small)</i>		20	0	974	500	0.48695

### OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		1880	0	91547	80	7.32372
<i>Prasinophytes</i>		1	0	49	100	0.00487

TOTAL BGA	1588430	8.32372
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	2095692	47.93222

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

REVIEWED: **Adam Deliyannis**  
Biologist

DATE: **27/10/2020**

METHOD NO.: MB010/MW024CV

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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.