

## ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7007888 21-25384
LOCALITY :	EM2108900_019
SITE :	Parnka Point
SAMPLE :	Surface
DATE SAMPLED :	12/05/2021
DATE ANALYSED :	20/05/2021
SAMPLED BY :	Sample analysed as received

**COMMENTS:** + A moderately diverse algal community was observed with small greens and BGA numerous. Water quality may be mildly impaired.

Sedgewick-Rafter Vol.(ml)	1.0018	Toxicogenic (T) or Potentially toxic (P)	- 200x	- 100x	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um <sup>3</sup> )	Total Biovolume (mm <sup>3</sup> /L)
Concentration	1 : 1	*	20	500			
Magnification							
Fields							

### BACILLARIOPHYCEAE

Centrales	0	1	2	200	0.00040
Entomoneis	1	0	50	1000	0.04991
Naviculales	48	0	2396	1400	3.35396
Pennales	3	0	150	300	0.04492
Pennales (small <20um)	40	0	1996	251	0.50110
Pleurosigma	0	2	4	2000	0.00799

### CHLOROPHYCEAE

Ankistrodesmoideae	60	0	2995	132	0.39529
Chlorococcoids (<10um)	780	0	38930	60	2.33580

### CHRYSTOPHYCEAE

Other Chrysophyceae	4	0	200	350	0.06987
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### CYANOPHYCEAE

Synechococcales small (iauv <20)	3740	0	186664	5.25	0.97999
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### DINOPHYCEAE

Gymnodiniales	0	2	4	2000	0.00799
Gymnodiniales (small)	2	0	100	500	0.04991

### OTHER PHYTOPLANKTON

Other small flagellates	64	0	3194	80	0.25554
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TOTAL BGA	186664	0.97999
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	236685	8.05266

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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: **Kirsten Mudie (signatory)**  
Biologist

REVIEWED: **Adam Deliyiannis**  
Biologist

DATE: **20/05/2021**

METHOD NO.: MB010/MW024VCA

Page 2 of 2