

## ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	6781618 20-54272
LOCALITY :	EM2020558_009
SITE :	Parnka Point
SAMPLE :	Surface
DATE SAMPLED :	18/11/2020
DATE ANALYSED :	23/11/2020
SAMPLED BY :	Sample analysed as received

**COMMENTS: +** A diverse community of algal taxa was observed. Excessive levels of small Synechococcales dominated the sample. Current levels will impair water quality.

Sedgewick-Rafter Vol.(ml)	1.0255	Toxicogenic (T) or Potentially toxic (P) *	- 200x 20	- 100x 500	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um <sup>3</sup> )	Total Biovolume (mm <sup>3</sup> /L)
Concentration	1 : 1						
Magnification							
Fields							

### BACILLARIOPHYCEAE

Centrales		1	0	49	200	0.00975
Chaetoceros		4	0	195	200	0.03901
Pennales		0	1	2	300	0.00059
Pennales (small <20um)		12	0	585	251	0.14686

### CHLOROPHYCEAE

Ankistrodesmoideae		63	0	3072	132	0.40546
Chlorococcoids (<10um)		460	0	22428	60	1.34569

### CHRYSTOPHYCEAE

Other Chrysophyceae		1	0	49	350	0.01706
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### CYANOPHYCEAE

Planktolyngbya		48	0	2340	3.8	0.00889
Synechococcales small (iauv <20)		21920	0	1068747	5.25	5.61092

### DINOPHYCEAE

Gymnodiniales		2	0	98	2000	0.19503
Gymnodiniales (small)		2	0	98	500	0.04876

### OTHER PHYTOPLANKTON

Other small flagellates		23	0	1121	80	0.08971
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TOTAL BGA	1071087	5.61981
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	1098784	7.91772

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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.