

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7548886 22-57206
LOCALITY :	EM2213882-003
SITE :	Parnka Point
SAMPLE :	Surface
DATE SAMPLED :	21/07/2022
DATE ANALYSED :	26/07/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderately diverse algal community was observed with high levels of algae sufficient to impair water quality.

Sedgewick-Rafter Vol.(ml)	1.0274	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>Amphora</i>		1	0	49	500	0.02433
<i>Centrales</i>		1	0	49	200	0.00973
<i>Chaetoceros</i>		100	0	4867	200	0.97333
<i>Naviculales</i>		0	8	16	1400	0.02180
<i>Nitzschia</i>		3	0	146	400	0.05840
<i>Pennales</i>		8	0	389	300	0.11680
<i>Pennales (small <20um)</i>		3	0	146	251	0.03665

CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>		880	0	42827	132	5.65310
<i>Chlamydomonads</i>		3	0	146	250	0.03650
<i>Chlorococcoids (<10um)</i>		6300	0	306599	60	18.39595
<i>Monoraphidium (small)</i>		40	0	1947	16	0.03115

CRYPTOPHYCEAE

<i>Cryptomonads</i>		1	0	49	320	0.01557
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CYANOPHYCEAE

<i>Synechococcales small (iauv <20)</i>		19740	0	960677	5.25	5.04356
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DINOPHYCEAE

<i>Dinoflagellates</i>		1	0	49	20000	0.97333
<i>Gymnodiniales</i>		12	0	584	2000	1.16800
<i>Gymnodiniales (small)</i>		2	0	97	500	0.04867

EUGLENOPHYCEAE

<i>Euglena</i>		1	0	49	7000	0.34067
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OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		260	0	12653	80	1.01226
<i>Prasinophytes</i>		1	0	49	100	0.00487

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

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

DATE: **26/07/2022**

METHOD NO.: MB010/MW024VCA

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TOTAL BGA	960677	5.04356
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	1331388	33.96467

+ 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 β -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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