

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7086225 21-35420
LOCALITY :	EM2113768-018
SITE :	Parnka Point
SAMPLE :	Surface
DATE SAMPLED :	13/07/2021
DATE ANALYSED :	20/07/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderately diverse algal community was observed with low biovolume BGA in levels that may impair water quality.

Sedgewick-Rafter Vol.(ml)	1.0333	Toxigenic (T) or Potentially toxic (P)			Total Cell Count (cells/mL)	Individual Algal Unit Volume (um ³)	Total Biovolume (mm ³ /L)
Concentration	1 : 1	*	- 200x	- 100x			
Magnification			20	500			
Fields							

BACILLARIOPHYCEAE

Centrales		2	0	97	200	0.01936
Nitzschia		3	0	145	400	0.05807
Pennales		1	0	48	300	0.01452
Pennales (small <20um)		3	0	145	251	0.03644

CHLOROPHYCEAE

Ankistrodesmoideae		148	0	7162	132	0.94532
Chlamydomonads		1	0	48	250	0.01210
Chlorococcoids (<10um)		76	0	3678	60	0.22065
Monoraphidium		1	0	48	900	0.04355

CRYPTOPHYCEAE

Cryptomonads		2	0	97	320	0.03097
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CYANOPHYCEAE

Synechococcales small (iauv <20)		1096	0	53034	5.25	0.27843
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DINOPHYCEAE

Dinoflagellates		1	0	48	20000	0.96777
Gymnodiniales (small)		3	0	145	500	0.07258

OTHER PHYTOPLANKTON

Other small flagellates		8	0	387	80	0.03097
Prasinophytes		19	0	919	100	0.09194
Raphidophytes		0	2	4	7000	0.02710

TOTAL BGA	53034	0.27843
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	66005	2.84975

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

REVIEWED: **Adam Deliyiannis**
Biologist

DATE: **20/07/2021**

METHOD NO.: MB010/MW024VCA

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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 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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