

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7684095 22-64966
LOCALITY :	EM2216763-003
SITE :	Parnka Point
SAMPLE :	Surface
DATE SAMPLED :	31/08/2022
DATE ANALYSED :	6/09/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse range of algae was observed. Levels may impact on water quality.

Sedgewick-Rafter Vol.(ml)	1.0242	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

Centrales		1	0	49	200	0.00976
Chaetoceros		11	0	537	200	0.10740
Pennales		3	0	146	300	0.04394
Pennales (small <20um)		3	0	146	251	0.03676

CHLOROPHYCEAE

Chlorococcoids (<10um)		640	0	31244	60	1.87463
Monoraphidium (small)		10	0	488	16	0.00781

CRYPTOPHYCEAE

Chroomonas		16	0	781	60	0.04687
------------	--	----	---	-----	----	---------

CYANOPHYCEAE

Planktolyngbya		10	0	488	3.8	0.00186
Synechococcales small (iauv <20)		1420	0	69322	5.25	0.36394

DINOPHYCEAE

Gymnodiniales		1	0	49	2000	0.09764
Gymnodiniales (small)		0	1	2	500	0.00098

TOTAL BGA	69810	0.36580
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	103252	2.59158

+ 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.

ANALYST: **Lauren Minett (signatory)**
Biologist

REVIEWED: **Louise Ungemach (signatory)**
Biologist

DATE: **06/09/2022**

METHOD NO.: MB010/MW024VCA

Page 1 of 1