

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7428772 22-19601
LOCALITY :	EM2207234-004
SITE :	Mark Point
SAMPLE :	Surface
DATE SAMPLED :	20/04/2022
DATE ANALYSED :	26/04/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + Current algal levels are unlikely to impair water quality.

Sedgewick-Rafter Vol.(ml)	1.0235	Toxicogenic (T) or Potentially toxic (P)			Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
Concentration	1 : 1	*	- 200x	- 100x			
Magnification			20	500			
Fields							

BACILLARIOPHYCEAE

Centrales		1	0	49	200	0.00977
Centrales - (5-10um)		3	0	147	80	0.01172
Naviculales		0	3	6	1400	0.00821
Pennales		3	0	147	300	0.04397

CHLOROPHYCEAE

Chlorococcoids (<10um)		81	0	3957	60	0.23742
Crucigenia		32	0	1563	30	0.04690
Didymocystis		4	0	195	41	0.00801
Monoraphidium (small)		18	0	879	16	0.01407
Monoraphidium (large)		1	0	49	400	0.01954
Planctonema		43	0	2101	800	1.68051
Scenedesmus		3	0	147	250	0.03664
Tetraedron		2	0	98	150	0.01466

CRYPTOPHYCEAE

Cryptomonads		9	0	440	320	0.14069
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CYANOPHYCEAE

Aphanizomenonaceae family - straight	P	0	8	16	67	0.00105
Komvophoron		0	6	12	33	0.00039
Oscillatoriales (iauv 101-200)	P	0	185	362	142.8	0.05162
Planktolyngbya		23	0	1124	3.8	0.00427

OTHER PHYTOPLANKTON

Other small flagellates		2	0	98	80	0.00782
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ANALYST: **Kirsten Mudie (signatory)**
Biologist

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

DATE: **26/04/2022**

METHOD NO.: MB010/MW024VCA

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Sedgewick-Rafter Vol.(ml)	1.0235	Toxigenic (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							

TOTAL BGA	1514	0.05733
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	378	0.05267
TOTAL ALGAE	11390	2.33725

+ 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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