

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7428773 22-19601
LOCALITY :	EM2207234-005
SITE :	Long 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)	1.0311	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							

BACILLARIOPHYCEAE

Centrales - (5-10um)		112	0	5431	80	0.43449
Naviculales		3	0	145	1400	0.20367
Nitzschia		0	1	2	400	0.00078
Pennales		5	0	242	300	0.07274
Pennales (small <20um)		2	0	97	251	0.02434

CHLOROPHYCEAE

Chlamydomonads		1	0	48	250	0.01212
Chlorococcoids (<10um)		37	0	1794	60	0.10765
Crucigenia		4	0	194	30	0.00582
Didymocystis		4	0	194	41	0.00795
Lagerheimia		1	0	48	500	0.02425
Monoraphidium (small)		32	0	1552	16	0.02483
Oocystis		11	0	533	300	0.16002
Planctonema		16	0	776	800	0.62070

CRYPTOPHYCEAE

Cryptomonads		3	0	145	320	0.04655
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CYANOPHYCEAE

Planktolyngbya		39	0	1891	3.8	0.00719
Romeria		7	0	339	31	0.01052
Synechococcales small (iauv <20)		6	0	291	5.25	0.00153

EUGLENOPHYCEAE

Trachelomonas		2	0	97	3000	0.29095
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OTHER PHYTOPLANKTON

Other small flagellates		2	0	97	80	0.00776
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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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TOTAL BGA	2521	0.01924
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	13916	2.06385

+ 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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