

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7217250 21-52414
LOCALITY :	EM2121437-015
SITE :	South Policeman Point
SAMPLE :	Surface
DATE SAMPLED :	26/10/2021
DATE ANALYSED :	9/11/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse range of algal taxa was observed. Excessive levels of low biovolume BGA Synechococcales will impact 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 (um ³)	Total Biovolume (mm ³ /L)
Concentration	1 : 1	*	20	500			
Magnification							
Fields							

BACILLARIOPHYCEAE

Centrales		0	1	2	200	0.00039
Naviculales		0	1	2	1400	0.00273
Nitzschia		0	1	2	400	0.00078
Pennales		3	0	146	300	0.04394
Pennales (small <20um)		2	0	98	251	0.02451

CHLOROPHYCEAE

Ankistrodesmoideae		690	0	33685	132	4.44640
Chlamydomonads		1	0	49	250	0.01220
Chlorococcoids (<10um)		20	0	976	60	0.05858

CYANOPHYCEAE

Synechococcales small (iauv <20)		27200	0	1327866	5.25	6.97129
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DINOPHYCEAE

Gymnodiniales		1	0	49	2000	0.09764
Gymnodiniales (small)		1	0	49	500	0.02441

OTHER PHYTOPLANKTON

Other small flagellates		29	0	1416	80	0.11326
Prasinophytes		3	0	146	100	0.01465
Raphidophytes		1	0	49	7000	0.34173

TOTAL BGA	1327866	6.97129
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	1364535	12.15251

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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.