

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7281152 21-59669
LOCALITY :	EM2125413-011
SITE :	North Jacks Point
SAMPLE :	Surface
DATE SAMPLED :	14/12/2021
DATE ANALYSED :	21/12/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + Excessive levels of small BGA will impair water quality and may pose a health risk.

Sedgewick-Rafter Vol.(ml)	1.0046	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

Nitzschia	26	0	1294	400	0.51762
Pennales (small <20um)	1680	0	83615	251	20.98746

CHLOROPHYCEAE

Ankistrodesmoideae	1400	0	69679	132	9.19769
Chlorococcoids (<10um)	4760	0	236910	60	14.21461

CHRYSTOPHYCEAE

Other Chrysophyceae	1	0	50	350	0.01742
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CRYPTOPHYCEAE

Cryptomonads	8	0	398	320	0.12741
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CYANOPHYCEAE

Synechococcales small (iauv <20)	32200	0	1602628	5.25	8.41380
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DINOPHYCEAE

Gymnodiniales	16	0	796	2000	1.59267
Gymnodiniales (small)	46	0	2289	500	1.14473

OTHER PHYTOPLANKTON

Other small flagellates	30	0	1493	80	0.11945
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TOTAL BGA	1602628	8.41380
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	1999152	56.33287

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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.

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

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

DATE: **22/12/2021**

METHOD NO.: MB010/MW024VCA

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