

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7217243 21-52414
LOCALITY :	EM2121437-003
SITE :	Bonneys
SAMPLE :	Surface
DATE SAMPLED :	26/10/2021
DATE ANALYSED :	8/11/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderately diverse algal community was observed with current levels unlikely to impair water quality.

Sedgewick-Rafter Vol.(ml)	1.032	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

<i>Chaetoceros</i>		4	0	194	200	0.03876
<i>Naviculales</i>		1	0	48	1400	0.06783
<i>Pennales</i>		0	3	6	300	0.00174
<i>Pennales (small <20um)</i>		2	0	97	251	0.02432

CHLOROPHYCEAE

<i>Chlamydomonads</i>		3	0	145	250	0.03634
<i>Chlorococcoids (<10um)</i>		32	0	1550	60	0.09302

CRYPTOPHYCEAE

<i>Cryptomonads</i>		1	0	48	320	0.01550
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CYANOPHYCEAE

<i>Synechococcales small (iauv <20)</i>		775	0	37548	5.25	0.19713
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DINOPHYCEAE

<i>Dinoflagellates</i>		1	0	48	20000	0.96899
<i>Gymnodiniales</i>		1	0	48	2000	0.09690
<i>Gymnodiniales (small)</i>		3	0	145	500	0.07267

OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		3	0	145	80	0.01163
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TOTAL BGA	37548	0.19713
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	40022	1.62484

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

REVIEWED: **Adam Deliyiannis**
Biologist

DATE: **10/11/2021**

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Sedgewick-Rafter Vol.(ml)	1.032	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			
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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

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Biologist

DATE: **10/11/2021**

METHOD NO.: MB010/MW024VCA

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