

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	6956310 21-18638
LOCALITY :	EM2106129-007
SITE :	Bonneys
SAMPLE :	Surface
DATE SAMPLED :	8/04/2021
DATE ANALYSED :	13/04/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was present in levels that may slightly impair water quality.

Sedgewick-Rafter Vol.(ml)	1.0099	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

<i>Entomoneis</i>		1	0	50	1000	0.04951
<i>Naviculales</i>		1	0	50	1400	0.06931
<i>Nitzschia</i>		36	0	1782	400	0.71294
<i>Pennales</i>		1	0	50	300	0.01485
<i>Pennales (small <20um)</i>		24	0	1188	251	0.29825
<i>Pleurosigma</i>		0	2	4	2000	0.00792

CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>		44	0	2178	132	0.28755
<i>Chlorococcoids (<10um)</i>		580	0	28716	60	1.72294
<i>Oocystis</i>		8	0	396	300	0.11882
<i>Selenastrum</i>		4	0	198	250	0.04951

CRYPTOPHYCEAE

<i>Cryptomonads</i>		1	0	50	320	0.01584
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CYANOPHYCEAE

<i>Limnithrix/Geitlerinema/Anagnostidinema</i>	P	0	55	109	17.5	0.00191
<i>Synechococcales small (iauv <20)</i>		2880	0	142588	5.25	0.74859

DINOPHYCEAE

<i>Dinoflagellates</i>		0	1	2	20000	0.03961
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OTHER PHYTOPLANKTON

<i>Prasinophytes</i>		1	0	50	100	0.00495
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TOTAL BGA	142697	0.75050
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	109	0.00191
TOTAL ALGAE	177411	4.14251

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

REVIEWED: **Lauren Minett (signatory)**
Biologist

DATE: **15/04/2021**

METHOD NO.: MB010/MW024VCA

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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.

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