

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7064972 21-32332
LOCALITY :	EM2112381-017
SITE :	Bonneys
SAMPLE :	Surface
DATE SAMPLED :	28/06/2021
DATE ANALYSED :	5/07/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed. Current levels are may impact water quality.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0208 1 : 1	Toxicogenic (T) or Potentially toxic (P) *	- 200x 20	- 100x 500	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
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BACILLARIOPHYCEAE

<i>Naviculales</i>		2	0	98	1400	0.13715
<i>Nitzschia</i>		3	0	147	400	0.05878
<i>Pennales</i>		2	0	98	300	0.02939
<i>Pennales (small <20um)</i>		1	0	49	251	0.01229

CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>		3	0	147	132	0.01940
<i>Chlorococcoids (<10um)</i>		14	0	686	60	0.04114

CYANOPHYCEAE

<i>Synechococcales small (iauv <20)</i>		2790	0	136658	5.25	0.71745
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DINOPHYCEAE

<i>Dinoflagellates</i>		4	0	196	20000	3.91850
<i>Gymnodiniales (small)</i>		6	0	294	500	0.14694

OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		10	0	490	80	0.03918
<i>Prasinophytes</i>		33	0	1616	100	0.16164
<i>Raphidophytes</i>		0	1	2	7000	0.01371

TOTAL BGA	136658	0.71745
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	140481	5.29558

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Concentration	1 : 1	*	20	500			
Magnification							
Fields							

+ 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.