

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	6873993 21-07778
LOCALITY :	EM52101680-011
SITE :	Stony Well
SAMPLE :	Surface
DATE SAMPLED :	3/02/2021
DATE ANALYSED :	8/02/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed with low biovolume BGA Synechococcales most numerous. Current levels may pose a health risk.

Sedgewick-Rafter Vol.(ml)	1.0311	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>Amphora</i>		1	0	48	500	0.02425
<i>Centrales</i>		1	0	48	200	0.00970
<i>Entomoneis</i>		0	1	2	1000	0.00194
<i>Nitzschia</i>		128	0	6207	400	2.48279
<i>Pennales</i>		1	0	48	300	0.01455
<i>Pennales (small <20um)</i>		2	0	97	251	0.02434

CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>		1040	0	50432	132	6.65697
<i>Chlamydomonads</i>		3	0	145	250	0.03637
<i>Chlorococcoids (<10um)</i>		1090	0	52856	60	3.17137

CHRYSTOPHYCEAE

<i>Other Chrysophyceae</i>		5	0	242	350	0.08486
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CYANOPHYCEAE

<i>Planktolyngbya</i>		5	0	242	3.8	0.00092
<i>Synechococcales small (iauv <20)</i>		14640	0	709921	5.25	3.72709

DINOPHYCEAE

<i>Gymnodiniales (small)</i>		2	0	97	500	0.04849
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OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		13	0	630	80	0.05043
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TOTAL BGA	710163	3.72801
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	821015	16.33406

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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.