

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7152219 21-43664
LOCALITY :	EM2118068-010
SITE :	Villa de Yumpa
SAMPLE :	Surface
DATE SAMPLED :	8/09/2021
DATE ANALYSED :	14/09/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderately diverse community of algal taxa was observed. Excessive levels of low biovolume BGA Synechococcales are likely to influence water quality.

Sedgewick-Rafter Vol.(ml)	1.0407	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			
Magnification							
Fields							

BACILLARIOPHYCEAE

Pennales	1	0	48	300	0.01441
Pleurosigma	0	1	2	2000	0.00384

CHLOROPHYCEAE

Ankistrodesmoideae	62	0	2979	132	0.39320
Chlorococcoids (<10um)	11	0	528	60	0.03171

CYANOPHYCEAE

Synechococcales small (iauv <20)	21280	0	1022389	5.25	5.36754
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DINOPHYCEAE

Gymnodiniales (small)	6	0	288	500	0.14413
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OTHER PHYTOPLANKTON

Other small flagellates	14	0	673	80	0.05381
Prasinophytes	1	0	48	100	0.00480
Raphidophytes	3	0	144	7000	1.00894

TOTAL BGA	1022389	5.36754
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	1027099	7.02239

+ 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: **Adam Deliyannis**
Biologist

REVIEWED: **Louise Ungemach (signatory)**
Biologist

DATE: **14/09/2021**

METHOD NO.: MB010/MW024VCA

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