

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7064975 21-32332
LOCALITY :	EM2112381-020
SITE :	Villa de Yumpa
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 likely to impact water quality.

Sedgewick-Rafter Vol.(ml)	1.0105	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>Nitzschia</i>		7	0	346	400	0.13855
<i>Pennales</i>		1	0	49	300	0.01484
<i>Pennales (small <20um)</i>		4	0	198	251	0.04968

CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>		296	0	14646	132	1.93330
<i>Carteria</i>		1	0	49	300	0.01484
<i>Chlorococcoids (<10um)</i>		392	0	19396	60	1.16378

CHRYSTOPHYCEAE

<i>Other Chrysophyceae</i>		2	0	99	350	0.03464
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CRYPTOPHYCEAE

<i>Cryptomonads</i>		0	1	2	320	0.00063
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CYANOPHYCEAE

<i>Oscillatoriales (iauv 1-100)</i>	P	0	32	63	60.8	0.00385
<i>Synechococcales small (iauv <20)</i>		16480	0	815438	5.25	4.28105

DINOPHYCEAE

<i>Dinoflagellates</i>		0	2	4	20000	0.07917
<i>Gymnodiniales (small)</i>		5	0	247	500	0.12370

OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		6	0	297	80	0.02375
<i>Prasinophytes</i>		2	0	99	100	0.00990
<i>Raphidophytes</i>		1	0	49	7000	0.34636

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Sedgewick-Rafter Vol.(ml)	1.0105	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							

TOTAL BGA	815501	4.28490
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	63	0.00385
TOTAL ALGAE	850982	8.21804

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

DATE: **05/07/2021**

METHOD NO.: MB010/MW024VCA

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