

22 Dalmore Drive Scoresby 3179 Tel. 03 8756 8183 Fax. 03 9763 1862





ALGAL REPORT

CLIENT:	Australian Laboratory Services Pty Ltd SA					
LABORATORY NO./BATCH NO.:	7791205 22-70933					
LOCALITY:	EM2218952_004					
SITE:	Villa de Yumpa					
SAMPLE:	Surface					
DATE SAMPLED :	29/09/2022					
DATE ANALYSED :	10/10/2022					
SAMPLED BY:	Sample analysed as received					

COMMENTS: + High levels of small BGA and greens are likely to have an impact on water quality.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1:1	Toxigenic (T) or Potentially toxic (P)	- 200x 20	- 100x 500	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
BACILLARIOPHYCEAE							
Centrales			3	0	148	200	0.02957
Chaetoceros			2	0	99	200	0.01971
Pennales			8	0	394	300	0.11826
Pennales (small <20um)			3	0	148	251	0.03710
Pleurosigma			0	1	2	2000	0.00394
CHLOROPHYCEAE	-						
Ankistrodesmoideae			540	0	26609	132	3.51237
Chlamydomonads			1	0	49	250	0.01232
Chlorococcoids (<10um)			2440	0	120233	60	7.21395
Monoraphidium (small)			1	0	49	16	0.00079
CRYPTOPHYCEAE							
Cryptomonads			10	0	493	320	0.15768
CYANOPHYCEAE	·						
Synechococcales small (iauv <20)			10840	0	534148	5.25	2.80428
DINOPHYCEAE							
Gymnodiniales			5	0	246	2000	0.49276
Gymnodiniales (small)			2	0	99	500	0.04928
OTHER PHYTOPLANKTON	1	,					
Other small flagellates			120	0	5913	80	0.47305
TOTAL BGA		534148				2.80428	
TOTAL TOXIGENIC BGA		0				0.00000	
TOTAL POTENTIALLY TOXIC BGA		0				0.00000	
TOTAL ALGAE				688630		14.92505	

ANALYST: Kirsten Mudie (signatory) REVIEWED: Adam Deliyiannis (signatory) DATE: 10/10/2022
Biologist Biologist

METHOD NO.: MB010/MW024VCA Page 1 of 2



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COMMENTS: + High levels of small BGA and greens are likely to have an impact on water quality.

Sedgewick-Rafter Vol.(ml) Concentration	1.0147 1 : 1	Toxigenic (T) or Potentially			Total Cell	Individual Algal Unit	Total
Magnification		toxic (P)	- 200x	- 100x	Count (cells/mL)	Volume (um3)	Biovolume (mm3/L)
Fields		*	20	500	(00110/1112)	(uiiis)	(

⁺ 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.

ANALYST: Kirsten Mudie (signatory) REVIEWED: Adam Deliyiannis (signatory) DATE: 10/10/2022
Biologist Biologist

METHOD NO.: MB010/MW024VCA Page 2 of 2

^{*} 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.