

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.:	6796594 20-56146			
LOCALITY:	EM2021368_019			
SITE:	Villae De Yumpa			
SAMPLE:	Surface			
DATE SAMPLED :	1/12/2020			
DATE ANALYSED :	3/12/2020			
SAMPLED BY:	Sample analysed as received			

COMMENTS: + A diverse community of algal taxa was observed. Excessive levels of small synechococcales dominated the sample. Current levels will impair water quality.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0311 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			2	0	97	200	0.01940	
Nitzschia			5	0	242	400	0.09698	
Pennales (small <20um)			1	0	48	251	0.01217	
Pleurosigma			0	5	10	2000	0.01940	
CHLOROPHYCEAE								
Ankistrodesmoideae			576	0	27931	132	3.68694	
Chlorococcoids (<10um)			4000	0	193968	60	11.63806	
CHRYSOPHYCEAE								
Other Chrysophyceae			1	0	48	350	0.01697	
CRYPTOPHYCEAE								
Cryptomonads			1	0	48	320	0.01552	
CYANOPHYCEAE								
Synechococcales small (iauv <20)			26880	0	1303462	5.25	6.84318	
DINOPHYCEAE								
Gymnodiniales			4	0	194	2000	0.38794	
Gymnodiniales (small)			3	0	145	500	0.07274	
Peridiniales			1	0	48	5000	0.24246	
OTHER PHYTOPLANKTON	OTHER PHYTOPLANKTON							
Other small flagellates			37	0	1794	80	0.14354	
TOTAL BGA		1303462				6.84318		
TOTAL TOXIGENIC BGA		0				0.00000		
TOTAL POTENTIALLY TOXIC BGA		0				0.00000		
	TOTAI	L ALGAE			1528035		23.19528	

ANALYST: Adam Deliyiannis
Biologist

REVIEWED: Kirsten Mudie (signatory)
Biologist

METHOD NO.: MB010/MW024VCA



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Magnification		toxic (P)	- 200x	- 100x	Count (cells/mL)	Volume	Biovolume (mm3/L)
Fields		*	20	500	(555/1112)	(um3)	(

<sup>+</sup> 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: Adam Deliyiannis REVIEWED: Kirsten Mudie (signatory)
Biologist Biologist

METHOD NO.: MB010/MW024VCA Page 2 of 2

DATE: **04/12/2020** 

<sup>\*</sup> 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.