

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. :	6956313 21-18638				
LOCALITY:	EM2106129-010				
SITE:	Villa de Yumpa				
SAMPLE:	Surface				
DATE SAMPLED :	7/04/2021				
DATE ANALYSED :	14/04/2021				
SAMPLED BY:	Sample analysed as received				

COMMENTS: + A diverse algal community was observed, with low-biovolume BGA being most numerous. Current BGA levels are sufficient to impact water quality.

, ,	208 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		1	0	49	200	0.00980	
Nitzschia		40	0	1959	400	0.78370	
Pennales		1	0	49	300	0.01469	
Pennales (small <20um)		35	0	1714	251	0.43030	
Pleurosigma		0	3	6	2000	0.01176	
CHLOROPHYCEAE	-						
Ankistrodesmoideae		155	0	7592	132	1.00216	
Chlorococcoids		990	0	48491	500	24.24569	
CRYPTOPHYCEAE							
Cryptomonads		9	0	441	320	0.14107	
CYANOPHYCEAE							
Planktolyngbya		8	0	392	3.8	0.00149	
Synechococcales small (iauv <20)		10100	0	494710	5.25	2.59723	
DINOPHYCEAE							
Dinoflagellates		14	0	686	20000	13.71473	
Gymnodiniales		3	0	147	2000	0.29389	
OTHER PHYTOPLANKTON							
Other small flagellates		15	0	735	80	0.05878	
Prasinophytes		2	0	98	100	0.00980	
TOTAL BGA		495102				2.59872	
TOTAL TOXIGENIC BGA		0				0.00000	
TOTAL POTENTIALLY TOXIC BGA		0				0.00000	
Т			557069		43.31507		

ANALYST: Kirsten Mudie (signatory) REVIEWED: Louise Ungemach (signatory) DATE: 15/04/2021
Biologist Biologist

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Sedgewick-Rafter Vol.(ml) Concentration	1.0208 1 : 1	Toxigenic (T) or Potentially			Total Cell	Individual Algal Unit	Total
Magnification		toxic (P)	- 200x	- 100x	Count (cells/mL)	Volume	Biovolume (mm3/L)
Fields		*	20	500	(CCII3/IIIL)	(um3)	(111113/12)

⁺ 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: Louise Ungemach (signatory) DATE: 15/04/2021
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.