

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





ALGAL REPORT

CLIENT:	ALS					
LABORATORY NO./BATCH NO.:	6657119 20-37229					
LOCALITY:	EM2013637_001					
SITE:	Stony Well					
SAMPLE:	Surface					
DATE SAMPLED :	5/08/2020					
DATE ANALYSED :	10/08/2020					
SAMPLED BY:	Sample analysed as received					

COMMENTS: + A diverse algal community was observed. Current excessive levels of small BGA and greens will impair 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							
Amphora			1	0	49	500	0.02451
Nitzschia			6	0	294	400	0.11766
Pennales			2	0	98	300	0.02941
Pennales (small <20um)			4	0	196	251	0.04922
CHLOROPHYCEAE	•						
Ankistrodesmoideae			290	0	14217	132	1.87665
Chlorococcoids (<10um)			3200	0	156878	60	9.41269
CRYPTOPHYCEAE	•						
Cryptomonads			8	0	392	320	0.12550
CYANOPHYCEAE	•						
Planktolyngbya			25	0	1226	3.8	0.00466
Synechococcales small (iauv <20)			8240	0	403961	5.25	2.12080
DINOPHYCEAE	•						
Gymnodiniales			30	0	1471	2000	2.94146
Gymnodiniales (small)			4	0	196	500	0.09805
Peridiniales			5	0	245	5000	1.22561
OTHER PHYTOPLANKTON	•						
Other small flagellates			405	0	19855	80	1.58839
Prasinophytes			35	0	1716	100	0.17159
TOTAL BGA		405187				2.12545	
TOTAL TOXIGENIC BGA		0				0.00000	
TOTAL POTENTIALLY TOXIC BGA				0		0.00000	
TOTAL ALGAE				600794		19.78620	

ANALYST: Kirsten Mudie (signatory) REVIEWED: Adam Deliyiannis DATE: 11/08/2020
Biologist Biologist

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Sedgewick-Rafter Vol.(ml) Concentration Magnification	1.0199 1 : 1	Toxigenic (T) or Potentially toxic (P)		- 100x	Total Cell Count (cells/mL)	Individual Algal Unit Volume	Total Biovolume (mm3/L)
Fields		*	20	500	(cells/mL)	(um3)	(mm3/L)

⁺ 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 DATE: 11/08/2020
Biologist Biologist

METHOD NO.: MB010/MW024CV 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.