

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.:	7116651 21-39298				
LOCALITY:	EM2115770-007				
SITE:	Bonneys				
SAMPLE:	Surface				
DATE SAMPLED :	9/08/2021				
DATE ANALYSED :	16/08/2021				
SAMPLED BY:	Sample analysed as received				

COMMENTS: + A diverse community of algal taxa was observed. High levels of the BGA Synechococcales are likely to impact water quality.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0272 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								
Chaetoceros			145	0	7058	200	1.41160	
Licmophora			0	2	4	850	0.00331	
Nitzschia			0	3	6	400	0.00234	
Pennales			1	0	49	300	0.01460	
CHLOROPHYCEAE								
Chlamydomonads			0	1	2	250	0.00049	
Chlorococcoids (<10um)			77	0	3748	60	0.22488	
CHRYSOPHYCEAE								
Other Chrysophyceae			28	0	1363	350	0.47702	
CRYPTOPHYCEAE								
Cryptomonads			2	0	97	320	0.03115	
CYANOPHYCEAE								
Synechococcales small (iauv <20)			3520	0	171340	5.25	0.89953	
DINOPHYCEAE								
Gymnodiniales			1	0	49	2000	0.09735	
Gymnodiniales (small)			0	4	8	500	0.00389	
OTHER PHYTOPLANKTON								
Other small flagellates			41	0	1996	80	0.15966	
Prasinophytes			3	0	146	100	0.01460	
Raphidophytes			0	3	6	7000	0.04089	
	тот	AL BGA		171340				
TOTAL TOXIGENIC BGA		0				0.00000		
TOTAL POTENTIALLY TOXIC BGA			0				0.00000	
	TOTAL	ALGAE	185872 3.3813				3.38133	

ANALYST: Adam Deliyiannis Biologist

REVIEWED: Karen Simonsen (signatory)

Biologist

DATE: 16/08/2021

METHOD NO.: MB010/MW024VCA



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	Sedgewick-Rafter Vol.(ml)	1.0272	Toxigenic				Individual	
١	Concentration	1:1	(T) or Potentially			Total Cell	Algal Unit	Total
١	Magnification		toxic (P)	- 200x	- 100x	Count (cells/mL)	Volume	Biovolume (mm3/L)
١	Fields		*	20	500	(Cells/IIIL)	(um3)	(111113/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

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 **Biologist**

REVIEWED: Karen Simonsen (signatory) **Biologist**

DATE: 16/08/2021

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.