

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. :	6956318 21-18638
LOCALITY:	EM2106129_015
SITE:	Morella Basin @ Outlet
SAMPLE:	Surface
DATE SAMPLED :	7/04/2021
DATE ANALYSED :	13/04/2021
SAMPLED BY:	Sample analysed as received

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

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0199 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			1	0	49	200	0.00980
Cocconeis			4	0	196	450	0.08824
Entomoneis			1	0	49	1000	0.04902
Naviculales			195	0	9560	1400	13.38367
Nitzschia			1	0	49	400	0.01961
Pennales			3	0	147	300	0.04412
Pennales (small <20um)			1	0	49	251	0.01231
CHLOROPHYCEAE							
Chlamydomonads			1	0	49	250	0.01226
Chlorococcoids (<10um)			440	0	21571	60	1.29424
Oocystis			4	0	196	300	0.05883
Selenastrum			3	0	147	250	0.03677
CRYPTOPHYCEAE							
Cryptomonads			4	0	196	320	0.06275
CYANOPHYCEAE				1			
Synechococcales small (iauv <20)			5760	0	282381	5.25	1.48250
DINOPHYCEAE							
Dinoflagellates			95	0	4657	20000	93.14639
Gymnodiniales			1	0	49	2000	0.09805
Gymnodiniales (small)			10	0	490	500	0.24512
Peridiniales			1	0	49	5000	0.24512
OTHER PHYTOPLANKTON		1					
Prasinophytes			1	0	49	100	0.00490

ANALYST: Kirsten Mudie (signatory) REVIEWED: Karen Simonsen (signatory) DATE: 15/04/2021
Biologist Biologist

METHOD NO.: MB010/MW024VCA Page 1 of 2



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Magnification		toxic (P)	- 200x	- 100x	Count (cells/mL)	Volume	Biovolume (mm3/L)
Fields		*	20	500	(cells/iliL)	(um3)	(IIIIII3/L)

2381 1.48250	282381	TOTAL BGA
0 0.00000	0	TOTAL TOXIGENIC BGA
0.00000	0	TOTAL POTENTIALLY TOXIC BGA
9933 110.29371	319933	TOTAL ALGAE

⁺ 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: Karen Simonsen (signatory) DATE: 15/04/2021 **Biologist Biologist**

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^{*} 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.