

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.:	6796592 20-56146		
LOCALITY:	EM2021368_017		
SITE:	McGrath Flat North		
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	1.0303 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	0.00971
Nitzschia			2	0	97	400	0.03882
Pennales			1	0	49	300	0.01456
Pleurosigma			0	2	4	2000	0.00776
CHLOROPHYCEAE							
Chlamydomonads			1	0	49	250	0.01213
Chlorococcoids (<10um)			305	0	14802	60	0.88809
CRYPTOPHYCEAE							
Cryptomonads			1	0	49	320	0.01553
CYANOPHYCEAE							
Planktolyngbya			5	0	243	3.8	0.00092
Synechococcales small (iauv <20)			34560	0	1677181	5.25	8.80520
DINOPHYCEAE							
Dinoflagellates			0	3	6	20000	0.11647
Gymnodiniales			4	0	194	2000	0.38824
Gymnodiniales (small)			4	0	194	500	0.09706
Peridiniales			1	0	49	5000	0.24265
OTHER PHYTOPLANKTON							
Other small flagellates			13	0	631	80	0.05047
	то	TAL BGA			1677424		8.80612
то	TAL TOXIGE	NIC BGA			0		0.00000
TOTAL POTE	NTIALLY TO	XIC BGA			0		0.00000
	TOTA	L ALGAE			1693597		10.68762

ANALYST: Adam Deliyiannis
Biologist

REVIEWED: Kirsten Mudie (signatory)
Biologist

METHOD NO.: MB010/MW024VCA

DATE: **04/12/2020**

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⁺ 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) DATE: 04/12/2020
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.