

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.:	7545133 22-57032			
LOCALITY:	EM2213883-006			
SITE:	McGrath Flat North			
SAMPLE:	Surface			
DATE SAMPLED :	20/07/2022			
DATE ANALYSED :	26/07/2022			
SAMPLED BY:	Sample analysed as received			

COMMENTS: + A diverse algal community was observed with high levels of algae that are likely to impair water quality.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0099 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			52	0	2575	200	0.51490
Navicula			2	0	99	1400	0.13863
Nitzschia			1	0	50	400	0.01980
Pennales			2	0	99	300	0.02971
Pennales (small <20um)			3	0	149	251	0.03728
Pleurosigma			0	1	2	2000	0.00396
CHLOROPHYCEAE				1			
Ankistrodesmoideae			510	0	25250	132	3.33300
Chlamydomonads			24	0	1188	250	0.29706
Chlorococcoids (<10um)			2420	0	119814	60	7.18883
Dictyosphaerium			12	0	594	20	0.01188
Monoraphidium (small)			4	0	198	16	0.00317
CRYPTOPHYCEAE				-			
Cryptomonads			1	0	50	320	0.01584
CYANOPHYCEAE				1			
Synechococcales small (iauv <20)			9100	0	450540	5.25	2.36533
DINOPHYCEAE				1			
Dinoflagellates			0	2	4	20000	0.07922
Gymnodiniales			7	0	347	2000	0.69314
Gymnodiniales (small)			2	0	99	500	0.04951
OTHER PHYTOPLANKTON							
Other small flagellates			400	0	19804	80	1.58432
Prasinophytes			2	0	99	100	0.00990

ANALYST: Kirsten Mudie (signatory) REVIEWED: Adam Deliyiannis (signatory) DATE: 26/07/2022
Biologist Biologist

METHOD NO.: MB010/MW024VCA Page 1 of 2



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Sedgewick-Rafter Vol.(ml) 1.0099 Concentration 1:1 Magnification Fields	Toxigenic (T) or Potentially toxic (P)	- 200x 20	- 100x 500	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
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TOTAL BGA	450540	2.36533
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	620961	16.37548

⁺ 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 (signatory) DATE: **26/07/2022** 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.