

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.:	7217245 21-52414					
LOCALITY:	EM2121437-006					
SITE:	McGrath Flat North					
SAMPLE:	Surface					
DATE SAMPLED :	26/10/2021					
DATE ANALYSED :	8/11/2021					
SAMPLED BY:	Sample analysed as received					

COMMENTS: + A moderately diverse algal community was observed with excessive levels of small BGA likely to impair water quality.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0105 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			2	0	99	200	0.01979
Pennales			1	0	49	300	0.01484
Pennales (small <20um)			1	0	49	251	0.01242
CHLOROPHYCEAE							
Ankistrodesmoideae			298	0	14745	132	1.94636
Chlorococcoids (<10um)			90	0	4453	60	0.26719
CRYPTOPHYCEAE							
Cryptomonads			4	0	198	320	0.06333
CYANOPHYCEAE							
Synechococcales small (iauv <20)			17280	0	855022	5.25	4.48887
DINOPHYCEAE							
Gymnodiniales			0	4	8	2000	0.01583
Gymnodiniales (small)			3	0	148	500	0.07422
OTHER PHYTOPLANKTON							
Other small flagellates			6	0	297	80	0.02375
TOTAL BGA		855022				4.48887	
TOTAL TOXIGENIC BGA		0				0.00000	
TOTAL POTENTIALLY TOXIC BGA		0				0.00000	
TOTAL ALGAE			875068				6.92662

⁺ 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: 10/11/2021
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.