

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. :	7281143	21-59669			
LOCALITY:	EM2125413-002				
SITE:	3.2km Sth of Salt Ck				
SAMPLE:	Surface				
DATE SAMPLED :	14/12/2021				
DATE ANALYSED :	21/12/2021				
SAMPLED BY:	Sample analysed as receiv	ed			

COMMENTS: + Excessive levels of small BGA will impair water quality and may pose a health risk.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0145 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							
Nitzschia			1	0	49	400	0.01971
Pennales			40	0	1971	300	0.59142
CHLOROPHYCEAE							
Ankistrodesmoideae			2380	0	117299	132	15.48349
Chlorococcoids (<10um)			5880	0	289798	60	17.38788
CRYPTOPHYCEAE							
Cryptomonads			8	0	394	320	0.12617
CYANOPHYCEAE							
Limnothrix/Geitlerinema/Anagnostidinema		Р	0	40	79	17.5	0.00138
Synechococcales small (iauv <20)			45500	0	2242484	5.25	11.77304
DINOPHYCEAE							
Gymnodiniales			4	0	197	2000	0.39428
Gymnodiniales (small)			25	0	1232	500	0.61607
OTHER PHYTOPLANKTON							
Other small flagellates			4	0	197	80	0.01577
TOTAL BGA		2242563				11.77442	
TOTAL TOXIGENIC BGA		0				0.00000	
TOTAL POTENTIALLY TOXIC BGA		79				0.00138	
TOTAL ALGAE			2653700				46.40922

⁺ 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: 22/12/2021
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.