

22 Dalmore Drive Scoresby 3179 Tel. 03 8756 8183 Fax. 03 9763 1862



DATE: 20/07/2021

ALGAL REPORT

CLIENT:	Australian Laboratory Services Pty Ltd SA				
LABORATORY NO./BATCH NO.:	7086221 21-35420				
LOCALITY:	EM2113768-014				
SITE:	McGrath Flat North				
SAMPLE:	Surface				
DATE SAMPLED :	13/07/2021				
DATE ANALYSED :	20/07/2021				
SAMPLED BY:	Sample analysed as received				

COMMENTS: + A moderately diverse algal community was observed with excessive levels of low biovolume BGA noted. Water quality is likely to be impaired.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0311 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	48	200	0.00970		
Chaetoceros			2	0	97	200	0.01940		
Nitzschia			2	0	97	400	0.03879		
Pennales (small <20um)			2		97	251	0.02434		
CHLOROPHYCEAE									
Ankistrodesmoideae			380	0	18427	132	2.43235		
Chlamydomonads			1	0	48	250	0.01212		
Chlorococcoids (<10um)			90	0	4364	60	0.26186		
Monoraphidium			1	0	48	900	0.04364		
CYANOPHYCEAE									
Pseudanabaena			0	25	48	12.5	0.00061		
Synechococcales small (iauv <20)			4740	0	229852	5.25	1.20672		
DINOPHYCEAE	DINOPHYCEAE								
Gymnodiniales			1	0	48	2000	0.09698		
Gymnodiniales (small)			2	0	97	500	0.04849		
OTHER PHYTOPLANKTON									
Other small flagellates			30	0	1455	80	0.11638		
Prasinophytes			135	0	6546	100	0.65464		
TOTAL BGA		229900				1.20733			
TOTAL TOXIGENIC BGA			0				0.00000		
TOTAL POTENTIALLY TOXIC BGA			0				0.00000		
TOTAL ALGAE				4.96603					

ANALYST: Kirsten Mudie (signatory) REVIEWED: A Biologist

REVIEWED: Adam Deliyiannis
Biologist

METHOD NO.: MB010/MW024VCA Page 1 of 2



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Sedgewick-Rafter Vol.(ml)	1.0311	Toxigenic (T) or				Individual	
Concentration	1 : 1	Potentially			Total Cell	Algal Unit	Total
Magnification		toxic (P)	- 200x	- 100x	Count (cells/mL)	Volume	Biovolume (mm3/L)
Fields		*	20	500	(Celis/IIIL)	(um3)	(111113/L)

⁺ 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: 20/07/2021
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.