

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



DATE: **07/10/2022**



ALGAL REPORT

CLIENT:	Australian Laboratory S	Australian Laboratory Services Pty Ltd SA		
LABORATORY NO./BATCH NO. :	7791227	22-70934		
LOCALITY:	EM2218950-006			
SITE:	McGrath Flat North			
SAMPLE:	Surface			
DATE SAMPLED :	28/09/2022			
DATE ANALYSED :	7/10/2022			
SAMPLED BY:	Sample analysed as re	eceived		

COMMENTS: + A diverse range of algal were observed. Current levels may impact water quality.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0237 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	0.00977	
Chaetoceros			21	0	1026	200	0.20514	
Naviculales			0	1	2	1400	0.00274	
Pennales			0	1	2	300	0.00059	
Pennales (small <20um)			1	0	49	251	0.01226	
CHLOROPHYCEAE								
Chlorococcoids (<10um)			605	0	29550	60	1.77298	
Monoraphidium (small)			10	0	488	16	0.00781	
CYANOPHYCEAE								
Chroococcus (small cells)			2	0	98	12	0.00117	
Planktolyngbya			80	0	3907	3.8	0.01485	
Synechococcales small (iauv <20)			4160	0	203185	5.25	1.06672	
DINOPHYCEAE								
Gymnodiniales			3	0	147	2000	0.29305	
Gymnodiniales (small)			3	0	147	500	0.07326	
OTHER PHYTOPLANKTON								
Other small flagellates			190	0	9280	80	0.74241	
TOTAL BGA TOTAL TOXIGENIC BGA TOTAL POTENTIALLY TOXIC BGA				207190		1.08274		
				0		0.00000		
		0			0.00000			
TOTAL ALGAE				247930		4.20274		

ANALYST: Adam Deliyiannis (signatory) REVIEWED: Natalie Alabaster
Biologist Biologist

METHOD NO.: MB010/MW024VCA Page 1 of 2



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Sedgewick-Rafter Vol.(ml)	1.0237	Toxigenic				Individual	
Concentration	1:1	(T) or 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: Adam Deliyiannis (signatory) REVIEWED: Natalie Alabaster
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.