

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.:	7086227 21-35420			
LOCALITY:	EM2113768-020			
SITE:	Mark Point			
SAMPLE:	Surface			
DATE SAMPLED :	14/07/2021			
DATE ANALYSED :	20/07/2021			
SAMPLED BY:	Sample analysed as received			

COMMENTS: + A diverse algal community was observed with current levels unlikely to impair water quality.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0138 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			4	0	197	200	0.03946
Chaetoceros			0	3	6	200	0.00118
Pennales			3	0	148	300	0.04439
Pennales (small <20um)			5	0	247	251	0.06190
CHLOROPHYCEAE				1			
Chlorococcoids (<10um)			26	0	1282	60	0.07694
Closterium			0	2	4	4130	0.01630
Crucigenia			8	0	395	30	0.01184
Dictyosphaerium			4	0	197	20	0.00395
Dimorphococcus			0	8	16	20	0.00032
Lagerheimia			1	0	49	500	0.02466
Monoraphidium			7	0	345	900	0.31071
Oocystis			2	0	99	300	0.02959
Planctonema			11	0	543	800	0.43401
Tetrastrum			4	0	197	40	0.00789
CRYPTOPHYCEAE				1			
Cryptomonads			11	0	543	320	0.17360
CYANOPHYCEAE				1			
Aphanizomenonaceae family - straight		Р	0	44	87	67	0.00582
Limnolyngbya			192	0	9469	4.9	0.04640
Planktolyngbya			77	0	3798	3.8	0.01443
Synechococcales small (iauv <20)			123	0	6066	5.25	0.03185
DINOPHYCEAE							
Gymnodiniales			1	0	49	2000	0.09864
EUGLENOPHYCEAE				1			

ANALYST: Kirsten Mudie (signatory)
Biologist

REVIEWED: Adam Deliyiannis
Biologist

METHOD NO.: MB010/MW024VCA Page 1 of 2



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		0	4	8	1000	0.00789
OTHER PHYTOPLANKTON						
		0	6	12	400	0.00473
		12	0	592	80	0.04735
		1	0	49	100	0.00493
TOTAL BGA		19420				0.09849
	1 : 1	1 : 1 (T) or Potentially toxic (P)	1:1 Protentially toxic (P) - 200x 20 0 12 TOTAL BGA	1:1 Protentially toxic (P)	1 : 1 Protentially toxic (P)	1 : 1 CT) or Potentially toxic (P)

TOTAL BGA	19420	0.09849
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	87	0.00582
TOTAL ALGAE	24398	1.49876

⁺ 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

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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.