

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.:	7086224 21-35420			
LOCALITY:	EM2113768-017			
SITE:	Murray Mouth			
SAMPLE:	Surface			
DATE SAMPLED :	14/07/2021			
DATE ANALYSED :	19/07/2021			
SAMPLED BY:	Sample analysed as received			

COMMENTS: + A diverse algal community was observed with small BGA in levels that may impair water quality.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0333 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							
Anaulus			0	7	14	500	0.00677
Centrales			1	0	48	200	0.00968
Naviculales			0	2	4	1400	0.00542
Nitzschia			1	0	48	400	0.01936
Pennales			0	3	6	300	0.00174
CHLOROPHYCEAE				1			
Ankistrodesmus			0	2	4	132	0.00051
Chlorococcoids (<10um)			4	0	194	60	0.01161
Closterium			0	3	6	4130	0.02398
Crucigenia			0	12	23	30	0.00070
Didymocystis			2	0	97	41	0.00397
Lagerheimia			0	1	2	500	0.00097
Monoraphidium			13	0	629	900	0.56615
Oocystis			2	0	97	300	0.02903
Planctonema			33	0	1597	800	1.27746
Scenedesmus			2	0	97	250	0.02419
Staurastrum			0	1	2	2000	0.00387
CRYPTOPHYCEAE				1			
Cryptomonads			6	0	290	320	0.09291
CYANOPHYCEAE		-					
Aphanizomenonaceae family - straight		Р	0	4	8	67	0.00052
Limnolyngbya			230	0	11129	4.9	0.05453
Planktolyngbya			352	0	17033	3.8	0.06472
Synechococcales small (iauv <20)			1360	0	65809	5.25	0.34550
EUGLENOPHYCEAE				1			

ANALYST: Kirsten Mudie (signatory)
Biologist

METHOD NO.: MB010/MW024VCA

REVIEWED: Adam Deliyiannis
Biologist

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DATE: 19/07/2021



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Eutreptia			1	0	48	1000	0.04839
OTHER PHYTOPLANKTON							
Other filaments (cells)			0	4	8	400	0.00310

TOTAL BGA	93979	0.46527
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	8	0.00052
TOTAL ALGAE	97193	2.59508

⁺ 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: 19/07/2021
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.