

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.:	7064966 21-32332			
LOCALITY:	EM2112381-011			
SITE:	Murray Mouth			
SAMPLE:	Surface			
DATE SAMPLED :	28/06/2021			
DATE ANALYSED :	5/07/2021			
SAMPLED BY:	Sample analysed as received			

COMMENTS: + A highly diverse community of algal taxa was observed. Current levels are unlikely to impact water quality.

Sedgewick-Rafter Vol.(ml) 1.0303 Concentration 1 : 1 Magnification Fields	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	3	6	500	0.00291	
Asterionellopsis		0	15	29	500	0.01456	
Centrales		0	1	2	200	0.00039	
Nitzschia		0	2	4	400	0.00155	
Pennales		0	1	2	300	0.00058	
Pennales (small <20um)		1	0	49	251	0.01218	
CHLOROPHYCEAE	CHLOROPHYCEAE						
Chlorococcoids (<10um)		9	0	437	60	0.02621	
Crucigenia		0	24	47	30	0.00140	
Didymocystis		2	0	97	41	0.00398	
Monoraphidium		2	0	97	900	0.08735	
Oocystis		3	0	146	300	0.04368	
Planctonema		7	0	340	800	0.27177	
CRYPTOPHYCEAE							
Cryptomonads		1	0	49	320	0.01553	
CYANOPHYCEAE							
Aphanizomenonaceae family - straight	Р	0	10	19	67	0.00130	
Limnolyngbya (Planktolyngbya circumcreta)		18	0	874	4.9	0.00428	
Planktolyngbya		55	0	2669	3.8	0.01014	
Pseudanabaena		12	0	582	12.5	0.00728	
Synechococcales small (iauv <20)		174	0	8444	5.25	0.04433	
EUGLENOPHYCEAE	EUGLENOPHYCEAE						
Eutreptia		2	0	97	1000	0.09706	
OTHER PHYTOPLANKTON							
Other small flagellates		1	0	49	80	0.00388	

ANALYST: Adam Deliyiannis
Biologist

REVIEWED: Kirsten Mudie (signatory)
Biologist

METHOD NO.: MB010/MW024VCA

DATE: **05/07/2021** 



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TOTAL BGA	12588	0.06733
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	19	0.00130
TOTAL ALGAE	14039	0.65036

<sup>+</sup> 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 **Biologist** 

METHOD NO.: MB010/MW024VCA

REVIEWED: Kirsten Mudie (signatory) **Biologist** 

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<sup>\*</sup> 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.