

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.:	7007880 21-25384	
LOCALITY:	EM2108900-011	
SITE:	Murray Mouth	
SAMPLE:	Surface	
DATE SAMPLED :	12/05/2021	
DATE ANALYSED :	19/05/2021	
SAMPLED BY:	Sample analysed as received	

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

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	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			0	1	2	200	0.00039
Pennales			0	2	4	300	0.00116
Pennales (small <20um)			1	0	49	251	0.01218
CHLOROPHYCEAE							
Chlamydomonads			1	0	49	250	0.01213
Chlorococcoids (<10um)			7	0	340	60	0.02038
CRYPTOPHYCEAE							
Cryptomonads			0	1	2	320	0.00062
CYANOPHYCEAE							
Planktolyngbya			0	35	68	3.8	0.00026
Pseudanabaena			0	7	14	12.5	0.00017
Synechococcales small (iauv <20)			44	0	2135	5.25	0.01121
DINOPHYCEAE							
Dinoflagellates			0	3	6	20000	0.11647
Gymnodiniales			0	1	2	2000	0.00388
OTHER PHYTOPLANKTON							
Other small flagellates			3	0	146	80	0.01165
Prasinophytes			2	0	97	100	0.00971
TOTAL BGA		2217			0.01164		
TOTAL TOXIGENIC BGA		0			0.00000		
TOTAL POTENTIALLY TOXIC BGA		0			0.00000		
TOTAL ALGAE				2914		0.20021	

ANALYST: Adam Deliyiannis Biologist

REVIEWED: Louise Ungemach (signatory)

Biologist

DATE: 19/05/2021

METHOD NO.: MB010/MW024VCA



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. :	7007880 21-25384			
LOCALITY:	EM2108900-011			
SITE:	Murray Mouth			
SAMPLE:	Surface			
DATE SAMPLED :	12/05/2021			
DATE ANALYSED :	19/05/2021			
SAMPLED BY:	Sample analysed as received			

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

Sedgewick-Rafter Vol.(ml) Concentration	1.0303 1 : 1	Toxigenic (T) or Potentially			Total Cell	Individual Algal Unit	Total
Magnification		toxic (P)	- 200x	- 100x	Count (cells/mL)	Volume (um3)	Biovolume (mm3/L)
Fields		*	20	500	(555/1112)	(uiii3)	(

⁺ 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

REVIEWED: Louise Ungemach (signatory)
Biologist

DATE: 19/05/2021

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.