

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.:	6956304 21-18638			
LOCALITY:	EM2106129-001			
SITE:	Murray Mouth			
SAMPLE:	Surface			
DATE SAMPLED :	8/04/2021			
DATE ANALYSED :	13/04/2021			
SAMPLED BY:	Sample analysed as received			

COMMENTS: + A diverse algal community was observed, with low-biovolume BGA being most numerous. Current BGA levels are unlikely to impair water quality.

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						
	0	1	2	1400	0.00275	
	0	4	8	400	0.00314	
	1	0	49	251	0.01231	
	1	0	49	132	0.00647	
	76	0	3726	500	1.86293	
	1	0	49	750	0.03677	
	1	0	49	500	0.02451	
	3	0	147	300	0.04412	
	20	0	980	800	0.78439	
	0	2	4	2000	0.00784	
	12	0	588	320	0.18825	
Р	0	14	27	67	0.00184	
	0	23	45	57	0.00257	
	25	0	1226	4.9	0.00601	
	127	0	6226	3.8	0.02366	
	0	96	188	12.5	0.00235	
	745	0	36523	5.25	0.19175	
DINOPHYCEAE						
	0	1	2	44000	0.08628	
OTHER PHYTOPLANKTON						
	8	0	392	80	0.03138	
	Potentially toxic (P)  *	Potentially toxic (P)	Potentially toxic (P)	Potentially toxic (P)	Potentially toxic (P)	

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

REVIEWED: Louise Ungemach (signatory) Biologist

DATE: 15/04/2021

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.:	6956304 21-18638			
LOCALITY:	EM2106129-001			
SITE:	Murray Mouth			
SAMPLE:	Surface			
DATE SAMPLED :	8/04/2021			
DATE ANALYSED :	13/04/2021			
SAMPLED BY:	Sample analysed as received			

COMMENTS: + A diverse algal community was observed, with low-biovolume BGA being most numerous. Current BGA levels are unlikely to impair water quality.

Sedgewick-Rafter Vol.(ml) Concentration	1.0199 1 : 1	Toxigenic (T) or Potentially			Total Cell	Individual Algal Unit	Total Biovolume
Magnification		toxic (P)	- 200x	- 100x	Count (cells/mL)	Volume	(mm3/L)
Fields		*	20	500	(OCHS/IIIL)	(um3)	(IIIII3/L)

TOTAL BGA	44235	0.22817
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	27	0.00184
TOTAL ALGAE	50280	3.31931

<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: Kirsten Mudie (signatory) REVIEWED: Louise Ungemach (signatory) DATE: 15/04/2021
Biologist Biologist

METHOD NO.: MB010/MW024VCA Page 2 of 2

<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.