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. :	7056273 21-31436
LOCALITY :	EM2111820-011
SITE :	Murray Mouth
SAMPLE :	Surface
DATE SAMPLED :	22/06/2021
DATE ANALYSED :	24/06/2021
SAMPLED BY :	Sample analysed as received

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

Sedgewick-Rafter Vol.(ml) 1.0407 **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						
Asterionellopsis		0	165	317	500	0.15855
Guinardia		0	11	21	4000	0.08456
Naviculales		0	1	2	1400	0.00269
Nitzschia		0	2	4	400	0.00154
CHLOROPHYCEAE						
Chlorococcoids (<10um)		3	0	144	60	0.00865
Oocystis		4	0	192	300	0.05765
Planctonema		8	0	384	800	0.30749
CYANOPHYCEAE						
Planktolyngbya		12	0	577	3.8	0.00219
Pseudanabaena		4	0	192	12.5	0.00240
Synechococcales small (iauv <20)		5	0	240	5.25	0.00126
DINOPHYCEAE						
Gymnodiniales (small)		1	0	48	500	0.02402
EUGLENOPHYCEAE						
Eutreptia		0	1	2	1000	0.00192
OTHER PHYTOPLANKTON						
Other small flagellates		2	0	96	80	0.00769

TOTAL BGA	**1009**	**0.00585**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**2219**	**0.66061**

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Lauren Minett (signatory)*** DATE: **24/06/2021**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA

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Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			

+ 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.

**** 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.***

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

REVIEWED: *Lauren Minett (signatory)* **Biologist**

DATE: **24/06/2021**

METHOD NO.: MB010/MW024VCA