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. :	7791202 22-70933
LOCALITY :	EM2218952-001
SITE :	Murray Mouth
SAMPLE :	Surface
DATE SAMPLED :	28/09/2022
DATE ANALYSED :	5/10/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa were observed. Curent levels are unlikely to impair water quality.

Sedgewick-Rafter Vol.(ml) 1.0116 **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						
Aulacoseira		140	0	6920	2860	19.79043
Pennales		4	0	198	300	0.05931
CHLOROPHYCEAE						
Chlorococcoids (<10um)		28	0	1384	60	0.08304
Crucigenia		16	0	791	30	0.02372
Monoraphidium (small)		3	0	148	16	0.00237
Oocystis		17	0	840	300	0.25208
Planctonema		28	0	1384	800	1.10716
Scenedesmus		10	0	494	250	0.12357
CRYPTOPHYCEAE						
Cryptomonads		2	0	99	320	0.03163
CYANOPHYCEAE						
Limnolyngbya		81	0	4004	4.9	0.01962
Planktolyngbya		180	0	8897	3.8	0.03381
Pseudanabaena		12	0	593	12.5	0.00741
Romeria		11	0	544	31	0.01685
Synechococcales small (iauv <20)		10	0	494	5.25	0.00259
OTHER PHYTOPLANKTON						
Other small flagellates		2	0	99	80	0.00791

TOTAL BGA	**14532**	**0.08029**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**26889**	**21.56151**

ANALYST: ***Adam Deliyiannis (signatory)*** REVIEWED: ***Louise Ungemach (signatory)*** DATE: **05/10/2022**
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: *Adam Deliyiannis (signatory)* REVIEWED: *Louise Ungemach (signatory)* DATE: **05/10/2022**

Biologist **Biologist**

METHOD NO.: MB010/MW024VCA