ALS Water
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. :	6933874 21-15798
LOCALITY :	EM2104707_011
SITE :	Murray Mouth
SAMPLE :	Surface
DATE SAMPLED :	18/03/2021
DATE ANALYSED :	22/03/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed with low biovolume BGA most numerous. Water quality is unlikely to be impaired.

Sedgewick-Rafter Vol.(ml) 1.0169 **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						
Pennales		1	0	49	300	0.01475
CHLOROPHYCEAE						
Chlamydomonads		1	0	49	250	0.01229
Chlorococcoids (<10um)		15	0	738	60	0.04425
Crucigenia		16	0	787	30	0.02360
Hyaloraphidium		1	0	49	750	0.03688
Lagerheimia		1	0	49	500	0.02458
Oocystis		12	0	590	300	0.17701
Planctonema		54	0	2655	800	2.12410
Scenedesmus		4	0	197	250	0.04917
Selenastrum		3	0	148	250	0.03688
CRYPTOPHYCEAE						
Cryptomonads		6	0	295	320	0.09440
CYANOPHYCEAE						
Aphanizomenonaceae family - straight	P	0	51	100	67	0.00672
Planktolyngbya		39	0	1918	3.8	0.00729
Synechococcales small (iauv <20)		752	0	36975	5.25	0.19412
OTHER PHYTOPLANKTON						
Other small flagellates		15	0	738	80	0.05900
Prasinophytes		1	0	49	100	0.00492

TOTAL BGA	**38993**	**0.20813**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**100**	**0.00672**
TOTAL ALGAE	**45386**	**2.90997**

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis*** DATE: **23/03/2021**
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)* REVIEWED: *Adam Deliyiannis* DATE: **23/03/2021**
Biologist **Biologist**

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