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. :	7484476 22-53363
LOCALITY :	EM2212384-001
SITE :	Murray Mouth
SAMPLE :	Surface
DATE SAMPLED :	29/06/2022
DATE ANALYSED :	5/07/2022
SAMPLED BY :	Sample analysed as received

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

Sedgewick-Rafter Vol.(ml) 1.0274 **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	32	62	500	0.03115
Centrales		6	0	292	200	0.05840
Pennales		2	0	97	300	0.02920
CHLOROPHYCEAE						
Ankistrodesmus		3	0	146	132	0.01927
Chlamydomonads		1	0	49	250	0.01217
Chlorococcoids (<10um)		15	0	730	60	0.04380
Colonial green (cells)		0	70	136	100	0.01363
Crucigenia		40	0	1947	30	0.05840
Dictyosphaerium		12	0	584	20	0.01168
Didymocystis		2	0	97	41	0.00399
Lagerheimia		2	0	97	500	0.04867
Monoraphidium (small)		14	0	681	16	0.01090
Monoraphidium (large)		1	0	49	400	0.01947
Oocystis		18	0	876	300	0.26280
Planctonema		16	0	779	800	0.62293
Scenedesmus		10	0	487	250	0.12167
Schroederia		1	0	49	550	0.02677
CRYPTOPHYCEAE						
Cryptomonads		3	0	146	320	0.04672
CYANOPHYCEAE						
Limnolyngbya		39	0	1898	4.9	0.00930
Planktolyngbya		73	0	3553	3.8	0.01350
Synechococcales small (iauv <20)		9	0	438	5.25	0.00230
OTHER PHYTOPLANKTON						

ANALYST: *Kirsten Mudie (signatory)* REVIEWED: *Natalie Alabaster* DATE: **07/07/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA

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Other small flagellates		3	0	146	80	0.01168

TOTAL BGA	**5889**	**0.02510**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**13339**	**1.47838**

+ 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.***

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