ALS Water
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ilac-MRA NATA
Accreditation No. 992
Accredited for compliance with ISO/IEC 17025 - Testing

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	239352 22-48116
LOCALITY :	EM2210355-001
SITE :	Murray Mouth
SAMPLE :	Surface
DATE SAMPLED :	1/06/2022
DATE ANALYSED :	14/06/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + Current levels are unlikely to impact water quality.

Sedgewick-Rafter Vol.(ml) 1.0327 **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						
Anaulus		6	0	291	500	0.14525
Asterionellopsis		52	0	2518	500	1.25884
Pennales		1	0	48	300	0.01453
CHLOROPHYCEAE						
Chlorococcoids (<10um)		3	0	145	60	0.00872
Monoraphidium (small)		1	0	48	16	0.00077
Planctonema		16	0	775	800	0.61973
CRYPTOPHYCEAE						
Cryptomonads		1	0	48	320	0.01549
CYANOPHYCEAE						
Planktolyngbya		5	0	242	3.8	0.00092
Romeria		5	0	242	31	0.00750
Synechococcales small (iauv <20)		29	0	1404	5.25	0.00737
OTHER PHYTOPLANKTON						
Other small flagellates		1	0	48	80	0.00387

TOTAL BGA	**1888**	**0.01580**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**5809**	**2.08300**

+ 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: **14/06/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA