ALS Water
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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7609394 22-60564
LOCALITY :	EM22151-004
SITE :	Noonameena
SAMPLE :	Surface
DATE SAMPLED :	8/08/2022
DATE ANALYSED :	12/08/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderately diverse algal community was observed, but current levels are insufficient to influence water quality. An organism resembling the ciliated protozoan Mesodinium rubrum was present at significant levels.

Sedgewick-Rafter Vol.(ml) 1.0204 **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						
Chaetoceros		5	0	245	200	0.04900
Cocconeis		0	1	2	450	0.00088
Fragilariaceae		0	2	4	500	0.00196
Pennales (small <20um)		3	0	147	251	0.03690
CHLOROPHYCEAE						
Chlorococcoids (<10um)		16	0	784	60	0.04704
Monoraphidium (small)		3	0	147	16	0.00235
Oocystis		22	0	1078	300	0.32340
Scenedesmus		2	0	98	250	0.02450
CRYPTOPHYCEAE						
Cryptomonads		2	0	98	320	0.03136
DINOPHYCEAE						
Gymnodiniales (small)		1	0	49	500	0.02450

TOTAL BGA	**0**	**0.00000**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**2652**	**0.54190**

+ 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: *Karen Simonsen (signatory)* REVIEWED: *Adam Deliyiannis (signatory)* DATE: **12/08/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA