ALS Water
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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7056278 21-31436
LOCALITY :	EM2111820-016
SITE :	Noonameena
SAMPLE :	Surface
DATE SAMPLED :	21/06/2021
DATE ANALYSED :	24/06/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse range of algal taxa was observed. Current levels are unlikely to influence 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						
Licmophora		0	1	2	850	0.00165
Naviculales		3	0	145	1400	0.20335
Pennales		0	1	2	300	0.00058
CHLOROPHYCEAE						
Chlorococcoids (<10um)		7	0	339	60	0.02034
CHRYSOPHYCEAE						
Other Chrysophyceae		0	14	27	350	0.00949
CYANOPHYCEAE						
Synechococcales small (iauv <20)		30	0	1453	5.25	0.00763
DINOPHYCEAE						
Gymnodiniales (small)		1	0	48	500	0.02421
Peridiniales		0	5	10	5000	0.04842
OTHER PHYTOPLANKTON						
Other small flagellates		15	0	726	80	0.05810
Prasinophytes		111	0	5374	100	0.53743

TOTAL BGA	**1453**	**0.00763**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**8126**	**0.91118**

+ 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* Biologist

REVIEWED: *Karen Simonsen (signatory)* Biologist

DATE: **24/06/2021**

METHOD NO.: MB010/MW024VCA