ALS Water
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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7064971 21-32332
LOCALITY :	EM2112381-016
SITE :	Noonameena
SAMPLE :	Surface
DATE SAMPLED :	28/06/2021
DATE ANALYSED :	5/07/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed. Current levels are unlikely to impact water quality.

Sedgewick-Rafter Vol.(ml) 1.0105 **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						
Nitzschia		0	6	12	400	0.00475
Pennales		7	0	346	300	0.10391
CHLOROPHYCEAE						
Chlamydomonads		3	0	148	250	0.03711
Chlorococcoids (<10um)		13	0	643	60	0.03859
CYANOPHYCEAE						
Synechococcales small (iauv <20)		17	0	841	5.25	0.00442
DINOPHYCEAE						
Dinoflagellates		2	0	99	20000	1.97922
Gymnodiniales		2	0	99	2000	0.19792
Gymnodiniales (small)		3	0	148	500	0.07422
OTHER PHYTOPLANKTON						
Other small flagellates		3	0	148	80	0.01188
Prasinophytes		2	0	99	100	0.00990
Raphidophytes		0	1	2	7000	0.01385

TOTAL BGA	**841**	**0.00442**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**2585**	**2.47577**

+ 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: *Kirsten Mudie (signatory)* **Biologist**

DATE: **05/07/2021**

METHOD NO.: MB010/MW024VCA