ALS Water
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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7281149 21-59669
LOCALITY :	EM2125413-008
SITE :	Morella Creek @Gauge
SAMPLE :	Surface
DATE SAMPLED :	14/12/2021
DATE ANALYSED :	20/12/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + Low levels of algae are unlikely to influence water quality.

Sedgewick-Rafter Vol.(ml) 1.0011 **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						
Naviculales		0	1	2	1400	0.00280
Pennales		1	0	50	300	0.01498
CHLOROPHYCEAE						
Chlorococcoids (<10um)		22	0	1099	60	0.06593
Lagerheimia		2	0	100	500	0.04995
Monoraphidium (small)		2	0	100	16	0.00160
Oocystis		19	0	949	300	0.28469
CYANOPHYCEAE						
Synechococcales small (iauv <20)		288	0	14384	5.25	0.07552
DINOPHYCEAE						
Gymnodiniales		1	0	50	2000	0.09989
OTHER PHYTOPLANKTON						
Other small flagellates		3	0	150	80	0.01199

TOTAL BGA	**14384**	**0.07552**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**16884**	**0.60733**

+ 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: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis (signatory)*** DATE: **22/12/2021**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA