ALS Water
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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7281148 21-59669
LOCALITY :	EM2125413-007
SITE :	Morella Basin @ O/L
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) 1.0145 **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	3	6	1400	0.00828
CHLOROPHYCEAE						
Chlorococcoids (<10um)		17	0	838	60	0.05027
Lagerheimia		8	0	394	500	0.19714
Monoraphidium (small)		1	0	49	16	0.00079
Oocystis		28	0	1380	300	0.41400
CYANOPHYCEAE						
Synechococcales small (iauv <20)		300	0	14786	5.25	0.07762
DINOPHYCEAE						
Gymnodiniales		0	1	2	2000	0.00394
OTHER PHYTOPLANKTON						
Other small flagellates		4	0	197	80	0.01577

TOTAL BGA	**14786**	**0.07762**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**17652**	**0.76782**

+ 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