ALS Water
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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7007874 21-25384
LOCALITY :	EM2108900-005
SITE :	Morella Basin @ O/L
SAMPLE :	Surface
DATE SAMPLED :	12/05/2021
DATE ANALYSED :	19/05/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderately diverse community of algal taxa was observed, with low biovolume BGA Synechococcales most numerous. Current levels are likely to impact on 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						
Amphora		1	0	48	500	0.02421
Pennales		2	0	97	300	0.02905
CHLOROPHYCEAE						
Chlamydomonads		2	0	97	250	0.02421
Chlorococcoids (<10um)		345	0	16704	60	1.00223
CHRYSOPHYCEAE						
Other Chrysophyceae		1	0	48	350	0.01695
CYANOPHYCEAE						
Synechococcales small (iauv <20)		8720	0	422194	5.25	2.21652
DINOPHYCEAE						
Dinoflagellates		2	0	97	20000	1.93667
Gymnodiniales (small)		41	0	1985	500	0.99254
OTHER PHYTOPLANKTON						
Other small flagellates		7	0	339	80	0.02711

TOTAL BGA	**422194**	**2.21652**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**441609**	**6.26949**

+ 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: *Louise Ungemach (signatory)* **Biologist**

DATE: **19/05/2021**

METHOD NO.: MB010/MW024VCA