ALS Water
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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7218531 21-52583
LOCALITY :	EM2121437-008
SITE :	Morella Basin @Gauge
SAMPLE :	Surface
DATE SAMPLED :	26/10/2021
DATE ANALYSED :	9/11/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderately diverse algal community was observed with current levels unlikely to impair water quality.

Sedgewick-Rafter Vol.(ml) 1.0311 **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						
Centrales - (5-10um)		1	0	48	80	0.00388
Pennales		3	0	145	300	0.04364
Pennales (small <20um)		3	0	145	251	0.03651
CHLOROPHYCEAE						
Ankistrodesmoideae		3	0	145	132	0.01920
Botryococcus		0	50	97	98	0.00950
Chlorococcoids (<10um)		6	0	291	60	0.01746
Colonial green (cells)		8	0	388	100	0.03879
Monoraphidium		5	0	242	900	0.21821
Oocystis		6	0	291	300	0.08729
CYANOPHYCEAE						
Synechococcales small (iauv <20)		432	0	20949	5.25	0.10998
OTHER PHYTOPLANKTON						
Other small flagellates		1	0	48	80	0.00388

TOTAL BGA	**20949**	**0.10998**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**22789**	**0.58835**

+ 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* DATE: **10/11/2021**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA