ALS Water
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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7609401 22-60564
LOCALITY :	EM2215131-011
SITE :	Tilley U/S Morella
SAMPLE :	Surface
DATE SAMPLED :	9/08/2022
DATE ANALYSED :	15/08/2022
SAMPLED BY :	Sample analysed as received

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

Sedgewick-Rafter Vol.(ml) 1.0194 **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		0	1	2	200	0.00039
Entomoneis		0	1	2	1000	0.00196
Pennales		0	4	8	300	0.00235
CHLOROPHYCEAE						
Chlorococcoids (<10um)		8	0	392	60	0.02354
Filamentous Green		0	2	4	386	0.00151
Monoraphidium (small)		19	0	932	16	0.01491
Tetraedron		0	1	2	150	0.00029
CHRYSOPHYCEAE						
Other Chrysophyceae		1	0	49	350	0.01717
CYANOPHYCEAE						
Synechococcales small (iauv <20)		22	0	1079	5.25	0.00567
OTHER PHYTOPLANKTON						
Other small flagellates		5	0	245	80	0.01962

TOTAL BGA	**1079**	**0.00567**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**2715**	**0.08742**

+ 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 (signatory)* REVIEWED: *Lauren Minett (signatory)* DATE: **15/08/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA