ALS Water
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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7545138 22-57032
LOCALITY :	EM2213883-011
SITE :	Tilley U/S Morella
SAMPLE :	Surface
DATE SAMPLED :	21/07/2022
DATE ANALYSED :	25/07/2022
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) 1.0046 **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						
Nitzschia		0	1	2	400	0.00080
Pennales		1	0	50	300	0.01493
CHLOROPHYCEAE						
Ankistrodesmoideae		4	0	199	132	0.02628
Chlorococcoids (<10um)		9	0	448	60	0.02688
Monoraphidium (small)		2	0	100	16	0.00159
Oocystis		1	0	50	300	0.01493
Tetraedron		1	0	50	150	0.00747
CHRYSOPHYCEAE						
Other Chrysophyceae		2	0	100	350	0.03484
CYANOPHYCEAE						
Synechococcales small (iauv <20)		11	0	547	5.25	0.00287
OTHER PHYTOPLANKTON						
Other small flagellates		3	0	149	80	0.01195

TOTAL BGA	**547**	**0.00287**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**1695**	**0.14253**

+ 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: *Louise Ungemach (signatory)* DATE: **26/07/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA