ALS Water
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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7281161 21-59669
LOCALITY :	EM2125413-020
SITE :	Tilley U/S Morella
SAMPLE :	Surface
DATE SAMPLED :	14/12/2021
DATE ANALYSED :	21/12/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + Low levels of algae are unlikely to influence water quality.

Sedgewick-Rafter Vol.(ml) 1.0105 **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	2	4	200	0.00079
Naviculales		0	1	2	1400	0.00277
CHLOROPHYCEAE						
Ankistrodesmoideae		9	0	445	132	0.05878
Chlamydomonads		1	0	49	250	0.01237
Chlorococcoids (<10um)		4	0	198	60	0.01188
Monoraphidium (small)		13	0	643	16	0.01029
Oocystis		5	0	247	300	0.07422
CYANOPHYCEAE						
Synechococcales small (iauv <20)		170	0	8412	5.25	0.04416
EUGLENOPHYCEAE						
Euglena		0	1	2	7000	0.01385
OTHER PHYTOPLANKTON						
Other small flagellates		3	0	148	80	0.01188
Prasinophytes		1	0	49	100	0.00495

TOTAL BGA	**8412**	**0.04416**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**10199**	**0.24594**

+ 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