ALS Water
22 Dalmore Drive Scoresby 3179
Tel. 03 8756 8183 Fax. 03 9763 1862

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7152229 21-43664
LOCALITY :	EM2118068-020
SITE :	Tilley U/S Morella
SAMPLE :	Surface
DATE SAMPLED :	8/09/2021
DATE ANALYSED :	13/09/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + Current low levels of algae are insufficient to influence water quality.

Sedgewick-Rafter Vol.(ml) 1.0291 **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		1	0	49	200	0.00972
Centrales - (5-10um)		2	0	97	80	0.00777
Entomoneis		0	1	2	1000	0.00194
Naviculales		1	0	49	1400	0.06802
Nitzschia		1	0	49	400	0.01943
Pennales		2	0	97	300	0.02915
CHLOROPHYCEAE						
Chlorococcoids (<10um)		3	0	146	60	0.00875
Didymocystis		0	2	4	41	0.00016
Filamentous Green		0	2	4	386	0.00150
Oocystis		1	0	49	300	0.01458
CYANOPHYCEAE						
Pseudanabaena		0	26	51	12.5	0.00063
Snowella		0	70	136	9	0.00122
Synechococcales small (iauv <20)		4	0	194	5.25	0.00102
OTHER PHYTOPLANKTON						
Other small flagellates		2	0	97	80	0.00777

TOTAL BGA	**381**	**0.00288**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**1024**	**0.17167**

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis*** DATE: **14/09/2021**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA

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Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			

+ 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: **14/09/2021**

Biologist **Biologist**

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