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. :	7007879 21-25384
LOCALITY :	EM2108900-010
SITE :	Tilley U/S Morella
SAMPLE :	Surface
DATE SAMPLED :	12/05/2021
DATE ANALYSED :	19/05/2021
SAMPLED BY :	Sample analysed as received

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

Sedgewick-Rafter Vol.(ml) 1.0242 **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						
Pennales		5	0	244	300	0.07323
CHLOROPHYCEAE						
Chlorococcoids (<10um)		2	0	98	60	0.00586
Chlorolobion		1	0	49	70	0.00342
Crucigenia		0	8	16	30	0.00047
Selenastrum		5	0	244	250	0.06102
CHRYSOPHYCEAE						
Other Chrysophyceae		1	0	49	350	0.01709
CRYPTOPHYCEAE						
Cryptomonads		2	0	98	320	0.03124
CYANOPHYCEAE						
Planktolyngbya		6	0	293	3.8	0.00111
Pseudanabaena		0	21	41	12.5	0.00051
Synechococcales small (iauv <20)		54	0	2636	5.25	0.01384
DINOPHYCEAE						
Dinoflagellates		1	0	49	20000	0.97637
EUGLENOPHYCEAE						
Euglena		0	1	2	7000	0.01367
OTHER PHYTOPLANKTON						
Other small flagellates		2	0	98	80	0.00781

TOTAL BGA	**2970**	**0.01547**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**3917**	**1.20564**

ANALYST: *Adam Deliyiannis* **Biologist**
REVIEWED: *Louise Ungemach (signatory)* **Biologist**
DATE: **19/05/2021**

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: *Adam Deliyiannis* **Biologist**

REVIEWED: *Louise Ungemach (signatory)* **Biologist**

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