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. :	7366814 22-11365
LOCALITY :	EM2203091-020
SITE :	Tilley U/S Morella
SAMPLE :	Surface
DATE SAMPLED :	23/02/2022
DATE ANALYSED :	28/02/2022
SAMPLED BY :	Sample analysed as received

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

Sedgewick-Rafter Vol.(ml) 1.0272 **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	0.00974
Chaetoceros		1	0	49	200	0.00974
Pennales		3	0	146	300	0.04381
CHLOROPHYCEAE						
Ankistrodesmoideae		4	0	195	132	0.02570
Chlorococcoids (<10um)		11	0	535	60	0.03213
Monoraphidium (small)		10	0	487	16	0.00779
CHRYSOPHYCEAE						
Other Chrysophyceae		2	0	97	350	0.03407
CYANOPHYCEAE						
Planktolyngbya		5	0	243	3.8	0.00092
Synechococcales small (iauv <20)		32	0	1558	5.25	0.00818
DINOPHYCEAE						
Dinoflagellates		11	0	535	20000	10.70872
Gymnodiniales (small)		1	0	49	500	0.02434
Peridiniales		1	0	49	5000	0.24338
OTHER PHYTOPLANKTON						
Other small flagellates		11	0	535	80	0.04283

TOTAL BGA	**1801**	**0.00910**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**4527**	**11.19135**

ANALYST: ***Adam Deliyiannis (signatory)*** REVIEWED: ***Louise Ungemach (signatory)*** DATE: **28/02/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA

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		Toxigenic (T) or Potentially toxic (P)			Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
Sedgewick-Rafter Vol.(ml)	1.0272						
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 (signatory)* REVIEWED: *Louise Ungemach (signatory)* DATE: **28/02/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA