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. :	7484458 22-53362
LOCALITY :	EM2212385-011
SITE :	Tilley U/S Morella
SAMPLE :	Surface
DATE SAMPLED :	30/06/2022
DATE ANALYSED :	5/07/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed with current levels unlikely to influence water quality.

Sedgewick-Rafter Vol.(ml) 1.027 **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		1	0	49	300	0.01461
CHLOROPHYCEAE						
Ankistrodesmoideae		2	0	97	132	0.01285
Ankistrodesmus		0	1	2	132	0.00026
Chlamydomonads		0	1	2	250	0.00049
Chlorococcoids (<10um)		3	0	146	60	0.00876
Dimorphococcus		0	4	8	20	0.00016
Monoraphidium (small)		2	0	97	16	0.00156
Oocystis		1	0	49	300	0.01461
Tetraedron		1	0	49	150	0.00730
CHRYSOPHYCEAE						
Other Chrysophyceae		1	0	49	350	0.01704
CYANOPHYCEAE						
Pseudanabaena		0	16	31	12.5	0.00039
Synechococcales small (iauv <20)		20	0	974	5.25	0.00511
DINOPHYCEAE						
Gymnodiniales		0	1	2	2000	0.00389
Peridiniales		0	1	2	5000	0.00974
EUGLENOPHYCEAE						
Trachelomonas		0	1	2	3000	0.00584
OTHER PHYTOPLANKTON						
Other small flagellates		2	0	97	80	0.00779
Prasinophytes		0	1	2	100	0.00019

ANALYST: *Kirsten Mudie (signatory)* REVIEWED: *Louise Ungemach (signatory)* DATE: **07/07/2022**
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)	1.027						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			

TOTAL BGA	**1005**	**0.00550**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**1658**	**0.11059**

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

METHOD NO.: MB010/MW024VCA