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. :	7394990 22-15545
LOCALITY :	EM2204816-018
SITE :	Tilley Watercourse
SAMPLE :	Surface
DATE SAMPLED :	17/03/2022
DATE ANALYSED :	25/03/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + Current levels are unlikely to influence 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						
Chaetoceros		3	0	146	200	0.02921
Naviculales		0	1	2	1400	0.00273
Pennales		0	10	19	300	0.00584
CHLOROPHYCEAE						
Chlorococcoids (<10um)		8	0	389	60	0.02336
Monoraphidium (small)		18	0	876	16	0.01402
CYANOPHYCEAE						
Planktolyngbya		10	0	487	3.8	0.00185
Synechococcales small (iauv <20)		18	0	876	5.25	0.00460
DINOPHYCEAE						
Dinoflagellates		0	32	62	20000	1.24611
Gymnodiniales		1	0	49	2000	0.09735
Gymnodiniales (small)		1	0	49	500	0.02434
Peridiniales		2	0	97	5000	0.48676
OTHER PHYTOPLANKTON						
Other small flagellates		4	0	195	80	0.01558
Prasinophytes		1	0	49	100	0.00487

TOTAL BGA	**1363**	**0.00645**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**3296**	**1.95661**

ANALYST: ***Adam Deliyiannis (signatory)*** REVIEWED: ***Kirsten Mudie (signatory)*** DATE: **25/03/2022**
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: *Adam Deliyiannis (signatory)* REVIEWED: *Kirsten Mudie (signatory)* DATE: **25/03/2022**

Biologist **Biologist**

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