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. :	7281162 21-59669
LOCALITY :	EM2125413-021
SITE :	Tilley Watercourse
SAMPLE :	Surface
DATE SAMPLED :	14/12/2021
DATE ANALYSED :	20/12/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + Low levels of algae are unlikely to influence water quality.

Sedgewick-Rafter Vol.(ml) 1.0011 **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		6	0	300	200	0.05993
Cocconeis		0	1	2	450	0.00090
Naviculales		0	1	2	1400	0.00280
Pennales		1	0	50	300	0.01498
CHLOROPHYCEAE						
Ankistrodesmoideae		9	0	450	132	0.05933
Botryococcus		0	20	40	98	0.00392
Chlorococcoids (<10um)		2	0	100	60	0.00599
Monoraphidium (small)		3	0	150	16	0.00240
Oocystis		14	0	699	300	0.20977
CHRYSOPHYCEAE						
Other Chrysophyceae		2	0	100	350	0.03496
CYANOPHYCEAE						
Synechococcales small (iauv <20)		422	0	21077	5.25	0.11065
OTHER PHYTOPLANKTON						
Other small flagellates		4	0	200	80	0.01598

TOTAL BGA	**21077**	**0.11065**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**23170**	**0.52162**

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis (signatory)*** DATE: **22/12/2021**
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 (signatory)* DATE: **22/12/2021**
Biologist **Biologist**

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