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. :	7545139 22-57032
LOCALITY :	EM2213883-012
SITE :	Tilley Watercourse
SAMPLE :	Surface
DATE SAMPLED :	21/07/2022
DATE ANALYSED :	25/07/2022
SAMPLED BY :	Sample analysed as received

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

Sedgewick-Rafter Vol.(ml) 1.0116 **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 - (5-10um)		0	2	4	80	0.00032
Naviculales		0	2	4	1400	0.00554
Pennales		3	0	148	300	0.04448
CHLOROPHYCEAE						
Ankistrodesmoideae		7	0	346	132	0.04567
Chlorococcoids (<10um)		3	0	148	60	0.00890
Filamentous Green		1	0	49	386	0.01908
Planctonema		0	8	16	800	0.01265
CHRYSOPHYCEAE						
Other Chrysophyceae		1	0	49	350	0.01730
CRYPTOPHYCEAE						
Cryptomonads		1	0	49	320	0.01582
CYANOPHYCEAE						
Pseudanabaena		0	37	73	12.5	0.00091
Synechococcales small (iauv <20)		30	0	1483	5.25	0.00778
OTHER PHYTOPLANKTON						
Prasinophytes		1	0	49	100	0.00494

TOTAL BGA	**1556**	**0.00870**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**2418**	**0.18339**

ANALYST: *Adam Deliyiannis (signatory)* REVIEWED: *Louise Ungemach (signatory)* DATE: **26/07/2022**
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: *Louise Ungemach (signatory)* DATE: **26/07/2022**

Biologist **Biologist**

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