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. :	6906821 21-12031
LOCALITY :	EM2103113-010
SITE :	Tilley Swamp Drain
SAMPLE :	Surface
DATE SAMPLED :	24/02/2021
DATE ANALYSED :	1/03/2021
SAMPLED BY :	Sample analysed as received

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

Sedgewick-Rafter Vol.(ml) 1.0311 **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						
Amphora		0	1	2	500	0.00097
Centrales		1	0	48	200	0.00970
Naviculales		1	0	48	1400	0.06789
Pennales		3	0	145	300	0.04364
Pennales (small <20um)		2	0	97	251	0.02434
CHLOROPHYCEAE						
Chlorococcoids (<10um)		8	0	388	60	0.02328
Colonial green (cells)		0	32	62	100	0.00621
Selenastrum		8	0	388	250	0.09698
CHRYSOPHYCEAE						
Other Chrysophyceae		1	0	48	350	0.01697
CRYPTOPHYCEAE						
Cryptomonads		1	0	48	320	0.01552
CYANOPHYCEAE						
Pseudanabaena		0	9	17	12.5	0.00022
Synechococcales small (iauv <20)		18	0	873	5.25	0.00458
DINOPHYCEAE						
Dinoflagellates		0	1	2	20000	0.03879
OTHER PHYTOPLANKTON						
Other small flagellates		2	0	97	80	0.00776

TOTAL BGA	**890**	**0.00480**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**2263**	**0.35685**

ANALYST: *Adam Deliyiannis* **Biologist**
REVIEWED: *Kirsten Mudie (signatory)* **Biologist**
DATE: **02/03/2021**

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* **Biologist**

REVIEWED: *Kirsten Mudie (signatory)* **Biologist**

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