ALS Water
22 Dalmore Drive Scoresby 3179
Tel. 03 8756 8183 Fax. 03 9763 1862

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6681714 20-40763
LOCALITY :	EM2014780-010
SITE :	Tilley Swamp Drain
SAMPLE :	Surface
DATE SAMPLED :	26/08/2020
DATE ANALYSED :	28/08/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed with low biovolume BGA most numerous. Current levels are unlikely to influence water quality.

Sedgewick-Rafter Vol.(ml) 1.024 **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	0.00098
Centrales		4	0	195	200	0.03906
Chaetoceros		1	0	49	200	0.00977
Naviculales		0	2	4	1400	0.00547
Pennales		2	0	98	300	0.02930
Pennales (small <20um)		1	0	49	251	0.01226
CHLOROPHYCEAE						
Ankistrodesmoideae		22	0	1074	132	0.14180
Chlamydomonads		2	0	98	250	0.02441
Chlorococcoids (<10um)		8	0	391	60	0.02344
Selenastrum		7	0	342	250	0.08545
CHRYSOPHYCEAE						
Other Chrysophyceae		1	0	49	350	0.01709
CYANOPHYCEAE						
Synechococcales small (iauv <20)		525	0	25635	5.25	0.13458
OTHER PHYTOPLANKTON						
Other small flagellates		3	0	146	80	0.01172
Prasinophytes		2	0	98	100	0.00977

TOTAL BGA	**25635**	**0.13458**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**28230**	**0.54508**

ANALYST: *Adam Deliyiannis* **Biologist**
REVIEWED: *Kirsten Mudie (signatory)* **Biologist**
DATE: **28/08/2020**

METHOD NO.: MB010/MW024CV

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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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