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. :	6781627 20-54272
LOCALITY :	EM2020558_018
SITE :	3.2km South of Salt Creek
SAMPLE :	Surface
DATE SAMPLED :	18/11/2020
DATE ANALYSED :	23/11/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed with low biovolume BGA dominating the sample. Water quality will be impaired.

Sedgewick-Rafter Vol.(ml) 1.0168 **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		1	0	49	500	0.02459
Centrales		3	0	148	200	0.02950
Naviculales		0	3	6	1400	0.00826
Nitzschia		2	0	98	400	0.03934
Pennales (small <20um)		16	0	787	251	0.19748
CHLOROPHYCEAE						
Ankistrodesmoideae		280	0	13769	132	1.81747
Chlorococcoids (<10um)		2120	0	104249	60	6.25492
Planctonema		0	8	16	800	0.01259
CHRYSOPHYCEAE						
Other Chrysophyceae		9	0	443	350	0.15490
CRYPTOPHYCEAE						
Cryptomonads		1	0	49	320	0.01574
CYANOPHYCEAE						
Synechococcales small (iauv <20)		25720	0	1264752	5.25	6.63995
DINOPHYCEAE						
Dinoflagellates		1	0	49	20000	0.98348
Gymnodiniales		3	0	148	2000	0.29504
Gymnodiniales (small)		8	0	393	500	0.19670
Peridiniales		1	0	49	5000	0.24587
OTHER PHYTOPLANKTON						
Other small flagellates		40	0	1967	80	0.15736

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis*** DATE: **23/11/2020**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA

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		Toxigenic (T) or Potentially toxic (P)			Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
Sedgewick-Rafter Vol.(ml)	1.0168						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			
TOTAL BGA					**1264752**		**6.63995**
TOTAL TOXIGENIC BGA					**0**		**0.00000**
TOTAL POTENTIALLY TOXIC BGA					**0**		**0.00000**
TOTAL ALGAE					**1386972**		**17.07317**

+ 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* DATE: **23/11/2020**
Biologist **Biologist**

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