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. :	7428786 22-19601
LOCALITY :	EM2207234-018
SITE :	Salt Creek Outlet
SAMPLE :	Surface
DATE SAMPLED :	21/04/2022
DATE ANALYSED :	27/04/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + High levels of low biovolume BGA, diatoms and greens will impair water quality.

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						
Nitzschia		640	0	31471	400	12.58851
Pennales		2	0	98	300	0.02950
CHLOROPHYCEAE						
Ankistrodesmoideae		590	0	29013	132	3.82966
Chlorococcoids (<10um)		1840	0	90480	60	5.42880
Oocystis		11	0	541	300	0.16227
CHRYSOPHYCEAE						
Other Chrysophyceae		1	0	49	350	0.01721
CRYPTOPHYCEAE						
Cryptomonads		1	0	49	320	0.01574
CYANOPHYCEAE						
Limnothrix/Geitlerinema/Anagnostidinema	P	0	95	187	17.5	0.00327
Spirulina		0	250	492	5.73	0.00282
Synechococcales small (iauv <20)		4760	0	234068	5.25	1.22886
DINOPHYCEAE						
Gymnodiniales		18	0	885	2000	1.77026
Gymnodiniales (small)		2	0	98	500	0.04917
Peridiniales		1	0	49	5000	0.24587
OTHER PHYTOPLANKTON						
Other small flagellates		21	0	1033	80	0.08261
Raphidophytes		1	0	49	7000	0.34422

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis (signatory)*** DATE: **27/04/2022**
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	**234747**	**1.23494**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**187**	**0.00327**
TOTAL ALGAE	**388562**	**25.79877**

+ 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)* **Biologist**

REVIEWED: *Adam Deliyiannis (signatory)* **Biologist**

DATE: **27/04/2022**

METHOD NO.: MB010/MW024VCA