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. :	7394984 22-15545
LOCALITY :	EM2204816-012
SITE :	Salt Creek Outlet
SAMPLE :	Surface
DATE SAMPLED :	17/03/2022
DATE ANALYSED :	25/03/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderately diverse algal community was observed. Current algal levels are sufficient to impair water quality (eg: discolouration).

Sedgewick-Rafter Vol.(ml) 1.0333 **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		490	0	23710	400	9.48418
Pennales		1	0	48	300	0.01452
Pennales (small <20um)		3	0	145	251	0.03644
CHLOROPHYCEAE						
Ankistrodesmoideae		2440	0	118068	132	15.58502
Carteria		1	0	48	300	0.01452
Chlorococcoids (<10um)		4340	0	210007	60	12.60041
Oocystis		13	0	629	300	0.18872
CRYPTOPHYCEAE						
Cryptomonads		3	0	145	320	0.04645
CYANOPHYCEAE						
Pseudanabaena		4	0	194	12.5	0.00242
Synechococcales small (iauv <20)		19670	0	951805	5.25	4.99698
DINOPHYCEAE						
Gymnodiniales (small)		1	0	48	500	0.02419
OTHER PHYTOPLANKTON						
Raphidophytes		1	0	48	7000	0.33872

TOTAL BGA	**951999**	**4.99940**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**1304895**	**43.33255**

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis (signatory)*** DATE: **25/03/2022**
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: *Kirsten Mudie (signatory)* REVIEWED: *Adam Deliyiannis (signatory)* DATE: **25/03/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA