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. :	7548892 22-57206
LOCALITY :	EM2213882-009
SITE :	Salt Creek Outlet
SAMPLE :	Surface
DATE SAMPLED :	21/07/2022
DATE ANALYSED :	26/07/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa were observed. Current levels are likely to impact water quality.

Sedgewick-Rafter Vol.(ml) 1.0046 **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	50	500	0.02489
Naviculales		0	1	2	1400	0.00279
Nitzschia		0	4	8	400	0.00319
Pennales		0	1	2	300	0.00060
CHLOROPHYCEAE						
Ankistrodesmoideae		204	0	10153	132	1.34023
Chlorococcoids (<10um)		1670	0	83118	60	4.98706
CRYPTOPHYCEAE						
Cryptomonads		0	2	4	320	0.00127
CYANOPHYCEAE						
Synechococcales small (iauv <20)		17250	0	858551	5.25	4.50739
DINOPHYCEAE						
Dinoflagellates		0	1	2	20000	0.03982
Gymnodiniales		2	0	100	2000	0.19908
Gymnodiniales (small)		14	0	697	500	0.34840
OTHER PHYTOPLANKTON						
Other small flagellates		760	0	37826	80	3.02608

TOTAL BGA	**858551**	**4.50739**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**990513**	**14.48079**

ANALYST: *Adam Deliyiannis (signatory)* REVIEWED: *Louise Ungemach (signatory)* DATE: **27/07/2022**
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: *Adam Deliyiannis (signatory)* REVIEWED: *Louise Ungemach (signatory)* DATE: **27/07/2022**

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