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. :	7609360 22-60563
LOCALITY :	EM2215130-009
SITE :	Salt Creek Outlet
SAMPLE :	Surface
DATE SAMPLED :	9/08/2022
DATE ANALYSED :	12/08/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa were observed. Current levels may mildly influence water quality.

Sedgewick-Rafter Vol.(ml) 1.0116 **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		1	0	49	400	0.01977
Pennales		2	0	99	300	0.02966
Pennales (small <20um)		1	0	49	251	0.01241
CHLOROPHYCEAE						
Chlorococcoids (<10um)		1750	0	86497	60	5.18980
Monoraphidium (small)		376	0	18584	16	0.29735
Monoraphidium (large)		0	1	2	400	0.00079
CYANOPHYCEAE						
Planktolyngbya		35	0	1730	3.8	0.00657
Synechococcales small (iauv <20)		8760	0	432977	5.25	2.27313
DINOPHYCEAE						
Dinoflagellates		1	0	49	20000	0.98853
Gymnodiniales		75	0	3707	2000	7.41400
Gymnodiniales (small)		25	0	1236	500	0.61783
Peridiniales		2	0	99	5000	0.49427
OTHER PHYTOPLANKTON						
Other small flagellates		345	0	17052	80	1.36418

TOTAL BGA	**434707**	**2.27971**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**562130**	**18.70828**

ANALYST: *Adam Deliyiannis (signatory)* REVIEWED: *Lauren Minett (signatory)* DATE: **15/08/2022**
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: *Lauren Minett (signatory)* DATE: **15/08/2022**

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