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. :	7328742 22-06265
LOCALITY :	EM2201088-013
SITE :	Salt Creek Outlet
SAMPLE :	Surface
DATE SAMPLED :	20/01/2022
DATE ANALYSED :	2/02/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + Excessive levels of small BGA and greens will impair water quality. This water may pose a health risk.

Sedgewick-Rafter Vol.(ml) 1.0199 **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						
Centrales		1	0	49	200	0.00980
Nitzschia		302	0	14805	400	5.92215
Pennales (small <20um)		680	0	33337	251	8.36749
CHLOROPHYCEAE						
Ankistrodesmoideae		3240	0	158839	132	20.96676
Chlorococcoids (<10um)		11200	0	549073	60	32.94441
CHRYSOPHYCEAE						
Other Chrysophyceae		0	40	78	350	0.02745
CRYPTOPHYCEAE						
Cryptomonads		9	0	441	320	0.14119
CYANOPHYCEAE						
Synechococcales small (iauv <20)		54600	0	2676733	5.25	14.05285
DINOPHYCEAE						
Gymnodiniales		16	0	784	2000	1.56878
Gymnodiniales (small)		9	0	441	500	0.22061

TOTAL BGA	**2676733**	**14.05285**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**3434580**	**84.22149**

+ 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: **02/02/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA