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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7241912 21-55807
LOCALITY :	EM2123012-013
SITE :	Salt Creek Outlet
SAMPLE :	Surface
DATE SAMPLED :	16/11/2021
DATE ANALYSED :	23/11/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + Low biovolume BGA were present in very high levels and are likely to impair water quality.

Sedgewick-Rafter Vol.(ml) 1.0145 **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						
Pennales (small <20um)		120	0	5914	251	1.48448
CHLOROPHYCEAE						
Ankistrodesmoideae		720	0	35485	132	4.68408
Chlorococcoids (<10um)		410	0	20207	60	1.21242
CYANOPHYCEAE						
Synechococcales small (iauv <20)		8800	0	433711	5.25	2.27698
DINOPHYCEAE						
Gymnodiniales		1	0	49	2000	0.09857
Gymnodiniales (small)		2	0	99	500	0.04929
OTHER PHYTOPLANKTON						
Other small flagellates		1340	0	66042	80	5.28339

TOTAL BGA	**433711**	**2.27698**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**561507**	**15.08921**

+ 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: **23/11/2021**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA