ALS Water
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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	6906818 21-12031
LOCALITY :	EM2103113-007
SITE :	Salt Creek Outlet
SAMPLE :	Surface
DATE SAMPLED :	24/02/2021
DATE ANALYSED :	1/03/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse and numerous community of algal taxa was observed. Current levels may mildly impair water quality.

Sedgewick-Rafter Vol.(ml) 1.0255 **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		248	0	12092	400	4.83667
Pennales		0	2	4	300	0.00117
CHLOROPHYCEAE						
Ankistrodesmoideae		1820	0	88737	132	11.71331
Chlorococcoids (<10um)		780	0	38030	60	2.28181
CHRYSOPHYCEAE						
Other Chrysophyceae		0	2	4	350	0.00137
CYANOPHYCEAE						
Limnothrix/Geitlerinema/Anagnostidinema	P	0	19	37	17.5	0.00065
Synechococcales small (iauv <20)		4480	0	218430	5.25	1.14676
DINOPHYCEAE						
Dinoflagellates		27	0	1316	20000	26.32862
Gymnodiniales		4	0	195	2000	0.39005
OTHER PHYTOPLANKTON						
Other small flagellates		27	0	1316	80	0.10531

TOTAL BGA	**218467**	**1.14741**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**37**	**0.00065**
TOTAL ALGAE	**360161**	**46.80572**

+ 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* **Biologist**

REVIEWED: *Kirsten Mudie (signatory)* **Biologist**

DATE: **02/03/2021**

METHOD NO.: MB010/MW024VCA