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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	6956316 21-18638
LOCALITY :	EM2106129-013
SITE :	Salt Creek Outlet
SAMPLE :	Surface
DATE SAMPLED :	7/04/2021
DATE ANALYSED :	13/04/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was present in levels that may slightly impair water quality.

Sedgewick-Rafter Vol.(ml) 1.0018 **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		164	0	8185	400	3.27411
CHLOROPHYCEAE						
Ankistrodesmoideae		420	0	20962	132	2.76702
Chlamydomonads		1	0	50	250	0.01248
Chlorococcoids (<10um)		1080	0	53903	60	3.23418
CRYPTOPHYCEAE						
Cryptomonads		3	0	150	320	0.04791
CYANOPHYCEAE						
Spirulina		0	350	699	5.73	0.00400
Synechococcales small (iauv <20)		5620	0	280495	5.25	1.47260
DINOPHYCEAE						
Dinoflagellates		14	0	699	20000	13.97485
Gymnodiniales (small)		1	0	50	500	0.02496
OTHER PHYTOPLANKTON						
Other small flagellates		30	0	1497	80	0.11978

TOTAL BGA	**281194**	**1.47660**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**366690**	**24.93188**

+ 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: ***Lauren Minett (signatory)*** DATE: **15/04/2021**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA