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## ALGAL REPORT

CLIENT:	Australian Laboratory Services Pty Ltd SA					
LABORATORY NO./BATCH NO.:	6933870 21-15798					
LOCALITY:	EM2104707_007					
SITE:	Salt Creek Outlet					
SAMPLE:	Surface					
DATE SAMPLED :	17/03/2021					
DATE ANALYSED :	23/03/2021					
SAMPLED BY:	Sample analysed as received					

**COMMENTS: +** Excessive levels of low biovolume BGA were observed, sufficient to impair water quality. High levels of greens and diatoms were also present.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0274 1 : 1	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			310	0	15087	400	6.03465
Pennales			1	0	49	300	0.01460
CHLOROPHYCEAE							
Ankistrodesmoideae			970	0	47207	132	6.23126
Chlorococcoids (<10um)			1140	0	55480	60	3.32879
CHRYSOPHYCEAE							
Other Chrysophyceae			6	0	292	350	0.10220
CRYPTOPHYCEAE							
Cryptomonads			6	0	292	320	0.09344
CYANOPHYCEAE							
Synechococcales small (iauv <20)			8300	0	403932	5.25	2.12064
DINOPHYCEAE							
Dinoflagellates			7	0	341	20000	6.81332
OTHER PHYTOPLANKTON							
Other small flagellates			240	0	11680	80	0.93440
TOTAL BGA				403932		2.12064	
TOTAL TOXIGENIC BGA				0		0.00000	
TOTAL POTENTIALLY TOXIC BGA				0		0.00000	
TOTAL ALGAE					534360		25.67330

<sup>+</sup> 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

ANALYST: Kirsten Mudie (signatory) REVIEWED: Adam Deliyiannis DATE: 23/03/2021 **Biologist Biologist** 

Page 1 of 1 METHOD NO.: MB010/MW024VCA

<sup>\*</sup> 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.