ALS Water
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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7086216 21-35420
LOCALITY :	EM2113768-009
SITE :	3.2km Sth of Salt Ck
SAMPLE :	Surface
DATE SAMPLED :	13/07/2021
DATE ANALYSED :	19/07/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed. Excessive levels of low biovolume BGA Synechococcales are likely to impact on water quality.

Sedgewick-Rafter Vol.(ml) 1.0327 **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						
Amphora		1	0	48	500	0.02421
Nitzschia		2	0	97	400	0.03873
Pennales		1	0	48	300	0.01453
CHLOROPHYCEAE						
Ankistrodesmoideae		38	0	1840	132	0.24286
Chlorococcoids (<10um)		60	0	2905	60	0.17430
CYANOPHYCEAE						
Synechococcales small (iauv <20)		23520	0	1138762	5.25	5.97850
DINOPHYCEAE						
Gymnodiniales (small)		6	0	291	500	0.14525
Peridiniales		0	1	2	5000	0.00968
OTHER PHYTOPLANKTON						
Other small flagellates		22	0	1065	80	0.08521
Prasinophytes		3	0	145	100	0.01453
Raphidophytes		29	0	1404	7000	9.82860

TOTAL BGA	**1138762**	**5.97850**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**1146607**	**16.55641**

+ 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: **20/07/2021**

METHOD NO.: MB010/MW024VCA