ALS Water
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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7217242 21-52414
LOCALITY :	EM2121437-001
SITE :	1.8km W of Salt Ck
SAMPLE :	Surface
DATE SAMPLED :	26/10/2021
DATE ANALYSED :	8/11/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderately diverse algal community was observed with excessive levels of small BGA likely to impair water quality.

Sedgewick-Rafter Vol.(ml) 1.0333 **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						
Centrales		1	0	48	200	0.00968
Pennales		1	0	48	300	0.01452
Pennales (small <20um)		1	0	48	251	0.01215
Pleurosigma		0	2	4	2000	0.00774
CHLOROPHYCEAE						
Ankistrodesmoideae		720	0	34840	132	4.59886
Chlorococcoids (<10um)		1280	0	61937	60	3.71625
CYANOPHYCEAE						
Pseudanabaena		0	16	31	12.5	0.00039
Synechococcales small (iauv <20)		46560	0	2252976	5.25	11.82812
DINOPHYCEAE						
Gymnodiniales		6	0	290	2000	0.58066
OTHER PHYTOPLANKTON						
Other small flagellates		220	0	10646	80	0.85164
Raphidophytes		1	0	48	7000	0.33872

TOTAL BGA	**2253007**	**11.82851**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**2360916**	**21.95872**

+ 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*** DATE: **10/11/2021**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA