ALS Water
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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7064973 21-32332
LOCALITY :	EM2112381-018
SITE :	McGrath Flat North
SAMPLE :	Surface
DATE SAMPLED :	28/06/2021
DATE ANALYSED :	5/07/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed. Current levels are may impact 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						
Naviculales		0	1	2	1400	0.00271
Pennales		2	0	97	300	0.02905
CHLOROPHYCEAE						
Ankistrodesmoideae		13	0	629	132	0.08308
Chlorococcoids (<10um)		212	0	10264	60	0.61586
CYANOPHYCEAE						
Synechococcales small (iauv <20)		2720	0	131694	5.25	0.69139
DINOPHYCEAE						
Dinoflagellates		1	0	48	20000	0.96834
Gymnodiniales		3	0	145	2000	0.29050
Gymnodiniales (small)		14	0	678	500	0.33892
OTHER PHYTOPLANKTON						
Other small flagellates		27	0	1307	80	0.10458
Prasinophytes		40	0	1937	100	0.19367

TOTAL BGA	**131694**	**0.69139**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**146801**	**3.31810**

+ 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: **05/07/2021**

METHOD NO.: MB010/MW024VCA