ALS Water
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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	187811 22-45580
LOCALITY :	EM2209350-007
SITE :	McGrath Flat North
SAMPLE :	Surface
DATE SAMPLED :	18/05/2022
DATE ANALYSED :	24/05/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa were observed. Current levels are likely to influence water qualiity.

Sedgewick-Rafter Vol.(ml) 1.0272 **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	49	500	0.02434
Naviculales		9	0	438	1400	0.61332
Pennales		21	0	1022	300	0.30666
Pennales (small <20um)		6	0	292	251	0.07331
Pleurosigma		0	1	2	2000	0.00389
CHLOROPHYCEAE						
Ankistrodesmoideae		34	0	1655	132	0.21846
Chlorococcoids (<10um)		93	0	4527	60	0.27161
Monoraphidium (small)		136	0	6620	16	0.10592
CRYPTOPHYCEAE						
Cryptomonads		1	0	49	320	0.01558
CYANOPHYCEAE						
Synechococcales small (iauv <20)		1080	0	52570	5.25	0.27599
OTHER PHYTOPLANKTON						
Prasinophytes		260	0	12656	100	1.26558

TOTAL BGA	**52570**	**0.27599**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**79880**	**3.17465**

+ 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 (signatory)* REVIEWED: *Louise Ungemach (signatory)* DATE: **25/05/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA