ALS Water
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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	239332 22-48115
LOCALITY :	EM2210354-005
SITE :	Bonneys
SAMPLE :	Surface
DATE SAMPLED :	1/06/2022
DATE ANALYSED :	12/06/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + Current levels are unlikely to impact water quality.

Sedgewick-Rafter Vol.(ml) 1.0046 **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		3	0	149	200	0.02986
Gyrosigma		0	5	10	1400	0.01394
Naviculales		10	0	498	1400	0.69679
Pennales		4	0	199	300	0.05973
Pleurosigma		0	2	4	2000	0.00796
CHLOROPHYCEAE						
Ankistrodesmoideae		39	0	1941	132	0.25622
Chlamydomonads		3	0	149	250	0.03733
Chlorococcoids (<10um)		25	0	1244	60	0.07466
CYANOPHYCEAE						
Synechococcales small (iauv <20)		85	0	4231	5.25	0.02221
DINOPHYCEAE						
Gymnodiniales		1	0	50	2000	0.09954
OTHER PHYTOPLANKTON						
Prasinophytes		13	0	647	100	0.06470

TOTAL BGA	**4231**	**0.02221**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**9122**	**1.36294**

+ 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: **14/06/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA