ALS Water
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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7484452 22-53362
LOCALITY :	EM2212385-005
SITE :	Bonneys
SAMPLE :	Surface
DATE SAMPLED :	29/06/2022
DATE ANALYSED :	5/07/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderately diverse algal community was observed with current algal levels unlikely to influence water quality.

Sedgewick-Rafter Vol.(ml) 1.0235 **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						
Entomoneis		2	0	98	1000	0.09770
Naviculales		20	0	977	1400	1.36786
Nitzschia		1	0	49	400	0.01954
Pennales (small <20um)		140	0	6839	251	1.71666
Pleurosigma		0	1	2	2000	0.00391
CHLOROPHYCEAE						
Ankistrodesmoideae		290	0	14167	132	1.87005
Chlamydomonads		4	0	195	250	0.04885
Chlorococcoids (<10um)		35	0	1710	60	0.10259
Monoraphidium (small)		55	0	2687	16	0.04299
CYANOPHYCEAE						
Synechococcales small (iauv <20)		995	0	48608	5.25	0.25519
OTHER PHYTOPLANKTON						
Other small flagellates		5	0	244	80	0.01954

TOTAL BGA	**48608**	**0.25519**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**75576**	**5.54488**

+ 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: ***Thao Nguyen (signatory)*** DATE: **07/07/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA