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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7428782 22-19601
LOCALITY :	EM2207234-014
SITE :	South Policeman Point
SAMPLE :	Surface
DATE SAMPLED :	21/04/2022
DATE ANALYSED :	27/04/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse range of algal taxa were observed. Current levels are likely 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						
Nitzschia		820	0	40812	400	16.32491
CHLOROPHYCEAE						
Chlorococcoids (<10um)		1790	0	89090	60	5.34541
CYANOPHYCEAE						
Limnothrix/Geitlerinema/Anagnostidinema	P	0	19	38	17.5	0.00066
DINOPHYCEAE						
Gymnodiniales		13	0	647	2000	1.29405
Gymnodiniales (small)		2	0	100	500	0.04977
Peridiniales		3	0	149	5000	0.74657
OTHER PHYTOPLANKTON						
Prasinophytes		4	0	199	100	0.01991

TOTAL BGA	**38**	**0.00066**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**38**	**0.00066**
TOTAL ALGAE	**131035**	**23.78127**

+ 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: *Kirsten Mudie (signatory)* DATE: **27/04/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA