ALS Water
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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7241914 21-55807
LOCALITY :	EM2123012-015
SITE :	Sth Policeman Point
SAMPLE :	Surface
DATE SAMPLED :	16/11/2021
DATE ANALYSED :	23/11/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderately diverse range of algal taxa was observed. High levels of low biovolume BGA Synechococcales will impair water quality.

Sedgewick-Rafter Vol.(ml) 1.036 **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		0	1	2	400	0.00077
Pennales (small <20um)		3	0	145	251	0.03634
CHLOROPHYCEAE						
Ankistrodesmoideae		880	0	42471	132	5.60618
Chlorococcoids (<10um)		625	0	30164	60	1.80985
CYANOPHYCEAE						
Synechococcales small (iauv <20)		14880	0	718147	5.25	3.77027
DINOPHYCEAE						
Gymnodiniales		3	0	145	2000	0.28958
Gymnodiniales (small)		3	0	145	500	0.07239
OTHER PHYTOPLANKTON						
Other small flagellates		60	0	2896	80	0.23166
Prasinophytes		2	0	97	100	0.00965

TOTAL BGA	**718147**	**3.77027**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**794212**	**11.82669**

+ 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: **23/11/2021**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA