ALS Water
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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7281153 21-59669
LOCALITY :	EM2125413-012
SITE :	Parnka Point
SAMPLE :	Surface
DATE SAMPLED :	14/12/2021
DATE ANALYSED :	20/12/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + Excessive levels of small BGA will impair water quality and may pose a health risk.

Sedgewick-Rafter Vol.(ml) 1.0105 **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						
Naviculales		1	0	49	1400	0.06927
Nitzschia		27	0	1336	400	0.53439
Pennales		2	0	99	300	0.02969
Pennales (small <20um)		220	0	10886	251	2.73231
Pleurosigma		0	1	2	2000	0.00396
CHLOROPHYCEAE						
Ankistrodesmoideae		1660	0	82138	132	10.84216
Chlorococcoids (<10um)		1360	0	67293	60	4.03761
CRYPTOPHYCEAE						
Cryptomonads		2	0	99	320	0.03167
CYANOPHYCEAE						
Synechococcales small (iauv <20)		28140	0	1392380	5.25	7.31000
DINOPHYCEAE						
Gymnodiniales		22	0	1089	2000	2.17714
Gymnodiniales (small)		16	0	792	500	0.39584

TOTAL BGA	**1392380**	**7.31000**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**1556163**	**28.16403**

+ 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: ***Adam Deliyiannis (signatory)*** DATE: **22/12/2021**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA