ALS Water
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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	239354 22-48116
LOCALITY :	EM2210355-003
SITE :	Parnka Point
SAMPLE :	Surface
DATE SAMPLED :	2/06/2022
DATE ANALYSED :	14/06/2022
SAMPLED BY :	Sample analysed as received

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

Sedgewick-Rafter Vol.(ml) 1.0744 **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						
Chaetoceros		3	0	140	200	0.02792
Entomoneis		0	1	2	1000	0.00186
Nitzschia		2	0	93	400	0.03723
Pennales		5	0	233	300	0.06981
Pennales (small <20um)		17	0	791	251	0.19858
CHLOROPHYCEAE						
Ankistrodesmoideae		52	0	2420	132	0.31943
Chlorococcoids (<10um)		444	0	20663	60	1.23976
Monoraphidium (small)		268	0	12472	16	0.19955
CYANOPHYCEAE						
Synechococcales small (iauv <20)		2360	0	109829	5.25	0.57660
OTHER PHYTOPLANKTON						
Other small flagellates		3	0	140	80	0.01117
Prasinophytes		131	0	6096	100	0.60964

TOTAL BGA	**109829**	**0.57660**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**152879**	**3.29156**

+ 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