ALS Water
22 Dalmore Drive Scoresby 3179
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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7281156 21-59669
LOCALITY :	EM2125413-015
SITE :	Sth Policeman 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) 1.0011 **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		0	1	2	1400	0.00280
Nitzschia		1	0	50	400	0.01998
Pennales (small <20um)		420	0	20977	251	5.26521
CHLOROPHYCEAE						
Ankistrodesmoideae		2640	0	131855	132	17.40485
Chlorococcoids (<10um)		5160	0	257717	60	15.46299
CRYPTOPHYCEAE						
Cryptomonads		9	0	450	320	0.14384
CYANOPHYCEAE						
Synechococcales small (iauv <20)		36820	0	1838977	5.25	9.65463
DINOPHYCEAE						
Gymnodiniales		20	0	999	2000	1.99780
Gymnodiniales (small)		19	0	949	500	0.47448

TOTAL BGA	**1838977**	**9.65463**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**2251976**	**50.42658**

+ 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