ALS Water
22 Dalmore Drive Scoresby 3179
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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7366807 22-11365
LOCALITY :	EM220391-013
SITE :	Sth Policeman Point
SAMPLE :	Surface
DATE SAMPLED :	23/02/2022
DATE ANALYSED :	28/02/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse range of algal taxa were observed. Current levels may impact water quality.

Sedgewick-Rafter Vol.(ml) 1.0242 **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		720	0	35149	400	14.05975
Pennales		2	0	98	300	0.02929
Pennales (small <20um)		3	0	146	251	0.03676
CHLOROPHYCEAE						
Ankistrodesmoideae		2120	0	103495	132	13.66139
Carteria		1	0	49	300	0.01465
Chlorococcoids (<10um)		910	0	44425	60	2.66550
CYANOPHYCEAE						
Synechococcales small (iauv <20)		14720	0	718610	5.25	3.77270
DINOPHYCEAE						
Gymnodiniales (small)		2	0	98	500	0.04882
OTHER PHYTOPLANKTON						
Raphidophytes		4	0	195	7000	1.36692

TOTAL BGA	**718610**	**3.77270**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**902265**	**35.65578**

+ 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: **28/02/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA