ALS Water
22 Dalmore Drive Scoresby 3179
Tel. 03 8756 8183 Fax. 03 9763 1862

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7328743 22-06265
LOCALITY :	EM2201088-014
SITE :	Snipe Point
SAMPLE :	Surface
DATE SAMPLED :	20/01/2022
DATE ANALYSED :	2/02/2022
SAMPLED BY :	Sample analysed as received

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

Sedgewick-Rafter Vol.(ml) 1.0311 **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		380	0	18427	400	7.37077
Pennales (small <20um)		560	0	27155	251	6.81602
CHLOROPHYCEAE						
Ankistrodesmoideae		4520	0	219183	132	28.93221
Carteria		2	0	97	300	0.02910
Chlorococcoids (<10um)		9520	0	461643	60	27.69857
Oocystis		1	0	48	300	0.01455
CRYPTOPHYCEAE						
Cryptomonads		4	0	194	320	0.06207
CYANOPHYCEAE						
Pseudanabaena		8	0	388	12.5	0.00485
Spirulina		0	320	621	5.73	0.00356
Synechococcales small (iauv <20)		67200	0	3258656	5.25	17.10794
DINOPHYCEAE						
Gymnodiniales		13	0	630	2000	1.26079
Gymnodiniales (small)		18	0	873	500	0.43643

TOTAL BGA	**3259665**	**17.11635**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**3987915**	**89.73685**

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis (signatory)*** DATE: **02/02/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA

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Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			

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

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