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. :	7328741 22-06265
LOCALITY :	EM2201088-012
SITE :	Parnka Point
SAMPLE :	Surface
DATE SAMPLED :	21/01/2022
DATE ANALYSED :	2/02/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + Excessive algal levels may impair 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						
Centrales		1	0	49	200	0.00976
Chaetoceros		5	0	244	200	0.04882
Nitzschia		9	0	439	400	0.17575
Pennales		1	0	49	300	0.01465
Pennales (small <20um)		4	0	195	251	0.04901
Pleurosigma		0	1	2	2000	0.00391
CHLOROPHYCEAE						
Ankistrodesmoideae		432	0	21090	132	2.78383
Chlorococcoids (<10um)		1250	0	61023	60	3.66139
CRYPTOPHYCEAE						
Cryptomonads		2	0	98	320	0.03124
CYANOPHYCEAE						
Synechococcales small (iauv <20)		8900	0	434485	5.25	2.28105
DINOPHYCEAE						
Dinoflagellates		1	0	49	20000	0.97637
Gymnodiniales (small)		4	0	195	500	0.09764
Peridiniales		3	0	146	5000	0.73228
OTHER PHYTOPLANKTON						
Other small flagellates		4	0	195	80	0.01562

TOTAL BGA	**434485**	**2.28105**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**518259**	**10.88132**

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

Biologist **Biologist**

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