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. :	6873991 21-07778
LOCALITY :	EM2101680-009
SITE :	Parnka Point
SAMPLE :	Surface
DATE SAMPLED :	3/02/2021
DATE ANALYSED :	8/02/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed with low biovolume BGA Synechococcales most numerous. Current levels may pose a health risk.

Sedgewick-Rafter Vol.(ml) 1.024 **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						
Amphora		0	1	2	500	0.00098
Centrales		1	0	49	200	0.00977
Naviculales		1	0	49	1400	0.06836
Nitzschia		81	0	3955	400	1.58203
Pennales		1	0	49	300	0.01465
Pennales (small <20um)		3	0	146	251	0.03677
Pleurosigma		0	1	2	2000	0.00391
CHLOROPHYCEAE						
Ankistrodesmoideae		205	0	10010	132	1.32129
Ankyra		0	1	2	40	0.00008
Chlamydomonads		3	0	146	250	0.03662
Chlorococcoids (<10um)		815	0	39795	60	2.38770
CHRYSOPHYCEAE						
Other Chrysophyceae		1	0	49	350	0.01709
CRYPTOPHYCEAE						
Cryptomonads		3	0	146	320	0.04688
CYANOPHYCEAE						
Synechococcales small (iauv <20)		27520	0	1343750	5.25	7.05469
DINOPHYCEAE						
Gymnodiniales		2	0	98	2000	0.19531
OTHER PHYTOPLANKTON						
Other small flagellates		16	0	781	80	0.06250
Prasinophytes		2	0	98	100	0.00977

ANALYST: *Adam Deliyiannis* **Biologist**

REVIEWED: *Kirsten Mudie (signatory)* **Biologist**

DATE: **09/02/2021**

METHOD NO.: MB010/MW024VCA

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		Toxigenic (T) or Potentially toxic (P)			Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
Sedgewick-Rafter Vol.(ml)	1.024						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			
TOTAL BGA					**1343750**		**7.05469**
TOTAL TOXIGENIC BGA					**0**		**0.00000**
TOTAL POTENTIALLY TOXIC BGA					**0**		**0.00000**
TOTAL ALGAE					**1399127**		**12.84837**

+ 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* **Biologist**

REVIEWED: *Kirsten Mudie (signatory)* **Biologist**

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