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. :	6796593 20-56146
LOCALITY :	EM2021368_015
SITE :	Parnka Point
SAMPLE :	Surface
DATE SAMPLED :	1/12/2020
DATE ANALYSED :	3/12/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed. Excessive levels of small synechococcales dominated the sample. Current levels will impair water quality.

Sedgewick-Rafter Vol.(ml) 1.0333 **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	48	200	0.00968
Entomoneis		1	0	48	1000	0.04839
Naviculales		2	0	97	1400	0.13549
Nitzschia		2	0	97	400	0.03871
Pennales (small <20um)		1	0	48	251	0.01215
Pleurosigma		1	0	48	2000	0.09678
CHLOROPHYCEAE						
Ankistrodesmoideae		100	0	4839	132	0.63873
Chlorococcoids (<10um)		425	0	20565	60	1.23391
CHRYSOPHYCEAE						
Other Chrysophyceae		1	0	48	350	0.01694
CYANOPHYCEAE						
Pseudanabaena		5	0	242	12.5	0.00302
Synechococcales small (iauv <20)		30080	0	1455531	5.25	7.64154
DINOPHYCEAE						
Dinoflagellates		1	0	48	20000	0.96777
Gymnodiniales		4	0	194	2000	0.38711
Gymnodiniales (small)		1	0	48	500	0.02419
Peridiniales		1	0	48	5000	0.24194
OTHER PHYTOPLANKTON						
Other small flagellates		4	0	194	80	0.01548

ANALYST: *Adam Deliyiannis* **Biologist**

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

DATE: **04/12/2020**

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)	1.0333						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			

TOTAL BGA	**1455773**	**7.64456**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**1482143**	**11.51183**

+ 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

DATE: **04/12/2020**

METHOD NO.: MB010/MW024VCA