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

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6695257 20-42534
LOCALITY :	EM2015594-009
SITE :	Parnka Point
SAMPLE :	Surface
DATE SAMPLED :	9/09/2020
DATE ANALYSED :	11/09/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A highly diverse and numerous community of algal taxa was observed. Current levels are likely to impair water quality.

Sedgewick-Rafter Vol.(ml) 1.0722 **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		1	0	47	500	0.02332
Chaetoceros		1	0	47	200	0.00933
Naviculales		4	0	187	1400	0.26115
Nitzschia		4	0	187	400	0.07461
Pennales		2	0	93	300	0.02798
Pennales (small <20um)		1	0	47	251	0.01170
Pleurosigma		0	3	6	2000	0.01119
CHLOROPHYCEAE						
Ankistrodesmoideae		148	0	6902	132	0.91102
Chlamydomonads		2	0	93	250	0.02332
Chlorococcoids (<10um)		680	0	31711	60	1.90263
CHRYSOPHYCEAE						
Other Chrysophyceae		1	0	47	350	0.01632
CRYPTOPHYCEAE						
Cryptomonads		4	0	187	320	0.05969
CYANOPHYCEAE						
Oscillatoriales (iauv 1-100)	P	0	18	34	60.8	0.00204
Planktolyngbya		94	0	4384	3.8	0.01666
Synechococcales small (iauv <20)		10400	0	484984	5.25	2.54617
DINOPHYCEAE						
Dinoflagellates		3	0	140	20000	2.79799
Gymnodiniales		1	0	47	2000	0.09327
Gymnodiniales (small)		3	0	140	500	0.06995
Peridiniales		2	0	93	5000	0.46633
OTHER PHYTOPLANKTON						

ANALYST: *Adam Deliyiannis* **Biologist**

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

DATE: **11/09/2020**

METHOD NO.: MB010/MW024CV

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Other small flagellates		14	0	653	80	0.05223
Prasinophytes		6	0	280	100	0.02798

TOTAL BGA	**489402**	**2.56487**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**34**	**0.00204**
TOTAL ALGAE	**530309**	**9.40487**

+ 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**

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