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

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6695262 20-42534
LOCALITY :	EM2015594_014
SITE :	Snipe Point
SAMPLE :	Surface
DATE SAMPLED :	9/09/2020
DATE ANALYSED :	11/09/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderately diverse algal community was observed with high levels of small BGA and greens present. Water quality may be impaired.

Sedgewick-Rafter Vol.(ml) 1.032 **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	0.00969
Nitzschia		76	0	3682	400	1.47287
Pennales (small <20um)		4	0	194	251	0.04864
CHLOROPHYCEAE						
Ankistrodesmoideae		295	0	14293	132	1.88663
Chlorococcoids (<10um)		1540	0	74612	60	4.47674
CHRYSOPHYCEAE						
Other Chrysophyceae		24	0	1163	350	0.40698
CRYPTOPHYCEAE						
Cryptomonads		8	0	388	320	0.12403
CYANOPHYCEAE						
Limnothrix/Geitlerinema/Anagnostidinema	P	0	191	370	17.5	0.00648
Planktolyngbya		52	0	2519	3.8	0.00957
Pseudanabaena		14	0	678	12.5	0.00848
Synechococcales small (iauv <20)		12400	0	600775	5.25	3.15407
DINOPHYCEAE						
Dinoflagellates		1	0	48	20000	0.96899
Gymnodiniales		8	0	388	2000	0.77519
Gymnodiniales (small)		7	0	339	500	0.16957
Peridiniales		1	0	48	5000	0.24225
OTHER PHYTOPLANKTON						
Other small flagellates		2740	0	132752	80	10.62016

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis*** DATE: **14/09/2020**
Biologist **Biologist**

METHOD NO.: MB010/MW024CV

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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)	1.032						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			
TOTAL BGA					**604342**		**3.17860**
TOTAL TOXIGENIC BGA					**0**		**0.00000**
TOTAL POTENTIALLY TOXIC BGA					**370**		**0.00648**
TOTAL ALGAE					**832297**		**24.38034**

+ 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*** DATE: **14/09/2020**
Biologist **Biologist**

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