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

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6722416 20-45935
LOCALITY :	EM2017172-014
SITE :	Long Point
SAMPLE :	Surface
DATE SAMPLED :	30/09/2020
DATE ANALYSED :	6/10/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed with small greens and low bioviolume BGA most numerous. Current combined levels may mildly 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						
Licmophora		0	1	2	850	0.00165
Naviculales		1	0	48	1400	0.06774
Nitzschia		0	1	2	400	0.00077
Pennales (small <20um)		1	0	48	251	0.01215
CHLOROPHYCEAE						
Ankistrodesmoideae		2	0	97	132	0.01277
Chlamydomonads		1	0	48	250	0.01210
Chlorococcoids		7	0	339	500	0.16936
Colonial green (cells)		60	0	2903	100	0.29033
Crucigenia		4	0	194	30	0.00581
Oocystis		0	4	8	300	0.00232
Planctonema		3	0	145	800	0.11613
Scenedesmus		0	4	8	250	0.00194
Selenastrum		2	0	97	250	0.02419
CRYPTOPHYCEAE						
Cryptomonads		16	0	774	320	0.24775
CYANOPHYCEAE						
Synechococcales small (iauv <20)		280	0	13549	5.25	0.07113
DINOPHYCEAE						
Dinoflagellates		0	1	2	20000	0.03871
EUGLENOPHYCEAE						
Eutreptia		1	0	48	1000	0.04839
OTHER PHYTOPLANKTON						
Other small flagellates		9	0	435	80	0.03484
Prasinophytes		1	0	48	100	0.00484

ANALYST: *Adam Deliyiannis* **Biologist**

REVIEWED: *Karen Simonsen (signatory)* **Biologist**

DATE: **07/10/2020**

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)	1.0333						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			
TOTAL BGA					**13549**		**0.07113**
TOTAL TOXIGENIC BGA					**0**		**0.00000**
TOTAL POTENTIALLY TOXIC BGA					**0**		**0.00000**
TOTAL ALGAE					**18795**		**1.16292**

+ 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: *Karen Simonsen (signatory)*
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