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

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6681722 20-40763
LOCALITY :	EM2014780_018
SITE :	McGrath Flat North
SAMPLE :	Surface
DATE SAMPLED :	26/08/2020
DATE ANALYSED :	28/08/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed with small BGA and greens most numerous. Water quality may be impaired.

Sedgewick-Rafter Vol.(ml) 1.0235 **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						
Chaetoceros		1	0	49	200	0.00977
Grammatophora		0	4	8	2000	0.01563
Naviculales		1	0	49	1400	0.06839
Pennales (small <20um)		2	0	98	251	0.02452
Pleurosigma		0	3	6	2000	0.01172
CHLOROPHYCEAE						
Ankistrodesmoideae		140	0	6839	132	0.90278
Chlamydomonads		12	0	586	250	0.14656
Chlorococcoids (<10um)		2760	0	134831	60	8.08989
CRYPTOPHYCEAE						
Cryptomonads		48	0	2345	320	0.75037
CYANOPHYCEAE						
Planktolyngbya		37	0	1808	3.8	0.00687
Pseudanabaena		0	4	8	12.5	0.00010
Synechococcales small (iauv <20)		5140	0	251099	5.25	1.31827
DINOPHYCEAE						
Dinoflagellates		0	6	12	20000	0.23449
Gymnodiniales		0	7	14	2000	0.02736
Gymnodiniales (small)		4	0	195	500	0.09770
Peridiniales		0	2	4	5000	0.01954
OTHER PHYTOPLANKTON						
Other small flagellates		90	0	4397	80	0.35173
Prasinophytes		22	0	1075	100	0.10747

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis*** DATE: **31/08/2020**
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)	1.0235						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			

TOTAL BGA	**252915**	**1.32524**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**403423**	**12.18318**

+ 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: **31/08/2020**
Biologist **Biologist**

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