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

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6681709 20-40763
LOCALITY :	EM2014780_004
SITE :	Snipe Point
SAMPLE :	Surface
DATE SAMPLED :	26/08/2020
DATE ANALYSED :	31/08/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderately diverse algal community was observed with high levels of small greens and BGA dominating the sample. Water quality is likely to be impaired.

Sedgewick-Rafter Vol.(ml) 1.0138 **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						
Nitzschia		64	0	3156	400	1.26258
Pennales		0	2	4	300	0.00118
Pennales (small <20um)		3	0	148	251	0.03714
CHLOROPHYCEAE						
Ankistrodesmoideae		335	0	16522	132	2.18090
Chlamydomonads		1	0	49	250	0.01233
Chlorococcoids (<10um)		1840	0	90748	60	5.44486
CHRYSOPHYCEAE						
Other Chrysophyceae		1	0	49	350	0.01726
CRYPTOPHYCEAE						
Cryptomonads		15	0	740	320	0.23673
CYANOPHYCEAE						
Planktolyngbya		122	0	6017	3.8	0.02286
Synechococcales small (iauv <20)		8840	0	435983	5.25	2.28891
DINOPHYCEAE						
Dinoflagellates		2	0	99	20000	1.97278
Gymnodiniales		3	0	148	2000	0.29592
Gymnodiniales (small)		40	0	1973	500	0.98639
Peridiniales		2	0	99	5000	0.49319
OTHER PHYTOPLANKTON						
Other small flagellates		52	0	2565	80	0.20517

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)	1.0138						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			
TOTAL BGA					**442000**		**2.31178**
TOTAL TOXIGENIC BGA					**0**		**0.00000**
TOTAL POTENTIALLY TOXIC BGA					**0**		**0.00000**
TOTAL ALGAE					**558300**		**15.45821**

+ 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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