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

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6722420 20-45935
LOCALITY :	EM2017172-018
SITE :	Parnka Point
SAMPLE :	Surface
DATE SAMPLED :	30/09/2020
DATE ANALYSED :	8/10/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse and abundant algal community was observed. Combined levels are likely to impair water quality.

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						
Amphora		0	2	4	500	0.00195
Chaetoceros		7	0	342	200	0.06839
Cocconeis		1	0	49	450	0.02198
Entomoneis		0	1	2	1000	0.00195
Grammatophora		1	0	49	2000	0.09770
Gyrosigma		0	1	2	1400	0.00274
Hantzschia		0	1	2	500	0.00098
Naviculales		0	2	4	1400	0.00547
Nitzschia		2	0	98	400	0.03908
Pennales		1	0	49	300	0.01466
Pennales (small <20um)		9	0	440	251	0.11036
Pleurosigma		0	3	6	2000	0.01172
CHLOROPHYCEAE						
Ankistrodesmoideae		273	0	13337	132	1.76043
Chlamydomonads		3	0	147	250	0.03664
Chlorococcoids		10560	0	515877	500	257.93845
CHRYSOPHYCEAE						
Choanoflagellates		10	0	489	100	0.04885
CRYPTOPHYCEAE						
Cryptomonads		9	0	440	320	0.14069
CYANOPHYCEAE						
Planktolyngbya		60	0	2931	3.8	0.01114
Synechococcales small (iauv <20)		65560	0	3202736	5.25	16.81436
DINOPHYCEAE						
Gymnodiniales		0	5	10	2000	0.01954

ANALYST: ***Karen Simonsen (signatory)*** REVIEWED: ***Adam Deliyiannis*** DATE: **08/10/2020**
Biologist **Biologist**

METHOD NO.: MB010/MW024CV

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Gymnodiniales (small)		14	0	684	500	0.34196
Peridiniales		5	0	244	5000	1.22130
Polykrikos		0	1	2	102170	0.19965

TOTAL BGA	**3205667**	**16.82550**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**3737944**	**278.91000**

+ 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: ***Karen Simonsen (signatory)*** REVIEWED: ***Adam Deliyiannis*** DATE: **08/10/2020**
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