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

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6657131 20-37229
LOCALITY :	EM2013637-013
SITE :	Mark Point
SAMPLE :	Surface
DATE SAMPLED :	4/08/2020
DATE ANALYSED :	10/08/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A highly diverse community of algal taxa was observed. Current levels of low biolvolume BGA may impact on water quality.

Sedgewick-Rafter Vol.(ml) 1.0311 **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		11	0	533	200	0.10668
Nitzschia		0	1	2	400	0.00078
Pennales		1	0	48	300	0.01455
CHLOROPHYCEAE						
Ankistrodesmus		1	0	48	132	0.00640
Chlamydomonads		2	0	97	250	0.02425
Chlorococcoids (<10um)		42	0	2037	60	0.12220
Crucigenia		32	0	1552	30	0.04655
Dictyosphaerium		4	0	194	20	0.00388
Filamentous Green		26	0	1261	386	0.48666
Hyaloraphidium		3	0	145	750	0.10911
Lagerheimia		1	0	48	500	0.02425
Oocystis		3	0	145	300	0.04364
Scenedesmus		2	0	97	250	0.02425
Selenastrum		1	0	48	250	0.01212
Tetraedron		1	0	48	150	0.00727
CHRYSOPHYCEAE						
Other Chrysophyceae		6	0	291	350	0.10183
CRYPTOPHYCEAE						
Cryptomonads		27	0	1309	320	0.41897
CYANOPHYCEAE						
Limnolyngbya (Planktolyngbya circumcreta)		28	0	1358	4.9	0.00665
Planktolyngbya		77	0	3734	3.8	0.01419
Pseudanabaena		5	0	242	12.5	0.00303
Synechococcales small (iauv <20)		1150	0	55766	5.25	0.29277

ANALYST: ***Adam Deliyiannis*** **Biologist**

REVIEWED: ***Kirsten Mudie (signatory)*** **Biologist**

DATE: **11/08/2020**

METHOD NO.: MB010/MW024CV

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DINOPHYCEAE						
Gymnodiniales (small)		2	0	97	500	0.04849
EUGLENOPHYCEAE						
Eutreptia		1	0	48	1000	0.04849
OTHER PHYTOPLANKTON						
Other small flagellates		56	0	2716	80	0.21724
Prasinophytes		65	0	3152	100	0.31520

TOTAL BGA	**61100**	**0.31664**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**75016**	**2.49946**

+ 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: ***Kirsten Mudie (signatory)*** **Biologist**

DATE: **11/08/2020**

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