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

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6643336 20-35580
LOCALITY :	EM2012826_010
SITE :	Murray Mouth
SAMPLE :	Surface
DATE SAMPLED :	22/07/2020
DATE ANALYSED :	27/07/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A highly diverse algal community was observed with small BGA dominating the sample. Water quality may be impacted by current algal levels.

		Toxigenic (T) or Potentially toxic (P)	- 200x	- 100x	Total Cell Count (cells/mL)
Sedgewick-Rafter Vol.(ml)	1.0208				
Concentration	1 : 1				
Magnification			20	500	
Fields		*			
BACILLARIOPHYCEAE					
Anaulus			0	2	4
Chaetoceros			2	0	98
Pennales			1	0	49
Tryblionella			0	2	4
CHLOROPHYCEAE					
Ankistrodesmus			6	0	294
Chlamydomonads			13	0	637
Chlorococcoids			12	0	588
Closterium			0	2	4
Crucigenia			12	0	588
Filamentous Green			10	0	490
Hyaloraphidium			8	0	392
Lagerheimia			1	0	49
Nephrocytium			3	0	147
Oocystis			13	0	637
Pediastrum			0	4	8
Selenastrum			3	0	147
Tetraedron			1	0	49
CHRYSOPHYCEAE					
Other Chrysophyceae			2	0	98
CRYPTOPHYCEAE					
Cryptomonads			11	0	539
CYANOPHYCEAE					
Aphanizomenonaceae family - straight		P	0	40	78
Leptolyngbya			0	183	359

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis*** DATE: **28/07/2020**

Biologist **Biologist**

METHOD NO.: MB010

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Sedgewick-Rafter Vol.(ml)	1.0208				
Concentration	1 : 1				
Magnification		**Toxigenic (T) or Potentially toxic (P)**	- 200x	- 100x	**Total Cell Count (cells/mL)**
Fields		*	20	500	
Limnolyngbya (Planktolyngbya circumcreta)			123	0	6025
Planktolyngbya			170	0	8327
Pseudanabaena			9	0	441
Synechococcales small (iauv <20)			2840	0	139107
DINOPHYCEAE					
Gymnodiniales			0	1	2
Prorocentrum			0	1	2
EUGLENOPHYCEAE					
Euglena			0	4	8
OTHER PHYTOPLANKTON					
Prasinophytes			2	0	98

TOTAL BGA	**154337**
TOTAL TOXIGENIC BGA	**0**
TOTAL POTENTIALLY TOXIC BGA	**78**
TOTAL ALGAE	**159269**

+ The comments are discretionary and are for the purpose of helping to understand WQ implications.The comments are not accredited by NATA.

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: **28/07/2020**

Biologist **Biologist**

METHOD NO.: MB010