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

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6643333 20-35580
LOCALITY :	EM2012826_007
SITE :	1.8km West of Salt Creek
SAMPLE :	Surface
DATE SAMPLED :	22/07/2020
DATE ANALYSED :	27/07/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed. Current excessive levels of small BGA and greens will impair water quality.

		Toxigenic (T) or Potentially toxic (P)	- 200x	- 100x	Total Cell Count (cells/mL)
Sedgewick-Rafter Vol.(ml)	1.0744				
Concentration	1 : 1				
Magnification			- 200x	- 100x	
Fields		*	20	500	
BACILLARIOPHYCEAE					
Amphora			1	0	47
Nitzschia			54	0	2513
Pennales			1	0	47
Pennales (small <20um)			1	0	47
CHLOROPHYCEAE					
Chlamydomonads			30	0	1396
Chlorococcoids			7300	0	339724
Monoraphidium			330	0	15357
CRYPTOPHYCEAE					
Cryptomonads			32	0	1489
CYANOPHYCEAE					
Planktolyngbya			90	0	4188
Synechococcales small (iauv <20)			17920	0	833954
DINOPHYCEAE					
Gymnodiniales			26	0	1210
Gymnodiniales (small)			4	0	186
Peridiniales			1	0	47
OTHER PHYTOPLANKTON					
Prasinophytes			44	0	2048
			TOTAL BGA		**838142**
			TOTAL TOXIGENIC BGA		**0**
			TOTAL POTENTIALLY TOXIC BGA		**0**
			TOTAL ALGAE		**1202253**

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

Biologist **Biologist**

METHOD NO.: MB010

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+ 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