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

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6643328 20-35580
LOCALITY :	EM2012826_002
SITE :	North Jacks Point
SAMPLE :	Surface
DATE SAMPLED :	22/07/2020
DATE ANALYSED :	28/07/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed with small BGA and greens present in excessive levels. Water quality is likely to be impaired.

		Toxigenic (T) or Potentially toxic (P)	- 200x	- 100x	Total Cell Count (cells/mL)
Sedgewick-Rafter Vol.(ml)	1.0274				
Concentration	1 : 1				
Magnification			- 200x	- 100x	
Fields		*	20	500	
BACILLARIOPHYCEAE					
Amphora			2	0	97
Centrales			0	1	2
Navicula			0	1	2
Nitzschia			14	0	681
Pennales			2	0	97
Pennales (small <20um)			8	0	389
CHLOROPHYCEAE					
Chlamydomonads			490	0	23847
Chlorococcoids			4300	0	209266
Monoraphidium			410	0	19953
Oocystis			6	0	292
CRYPTOPHYCEAE					
Cryptomonads			8	0	389
CYANOPHYCEAE					
Planktolyngbya			68	0	3309
Pseudanabaena			0	9	18
Synechococcales small (iauv <20)			35280	0	1716955
DINOPHYCEAE					
Gymnodiniales			2	0	97
Gymnodiniales (small)			20	0	973
Peridiniales			2	0	97
OTHER PHYTOPLANKTON					
Prasinophytes			36	0	1752

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

Biologist **Biologist**

METHOD NO.: MB010

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Sedgewick-Rafter Vol.(ml)	1.0274	**Toxigenic (T) or Potentially toxic (P)**			**Total Cell Count (cells/mL)**
Concentration	1 : 1				
Magnification			- 200x	- 100x	
Fields		*	20	500	

TOTAL BGA	**1720282**
TOTAL TOXIGENIC BGA	**0**
TOTAL POTENTIALLY TOXIC BGA	**0**
TOTAL ALGAE	**1978216**

+ 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