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

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6622185 20-32670
LOCALITY :	EM2011705_018
SITE :	1.8km west of Salt Creek
SAMPLE :	Surface
DATE SAMPLED :	7/07/2020
DATE ANALYSED :	13/07/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed with small BGA and greens dominating the sample. Water quality will be impaired and this water may pose a health concern e.g. skin/gastric irritations.

Sedgewick-Rafter Vol.(ml) 1.0138 **Concentration** 1 : 1 **Magnification** **Fields**	**Toxigenic (T) or Potentially toxic (P)** *	- 200x 20	- 100x 500	**Total Cell Count (cells/mL)**
BACILLARIOPHYCEAE				
Centrales		1	0	49
Nitzschia		18	0	888
Pennales		0	2	4
Pennales (small <20um)		1	0	49
CHLOROPHYCEAE				
Chlamydomonads		128	0	6313
Chlorococcoids		3480	0	171631
Monoraphidium		128	0	6313
Tetraedron		1	0	49
CRYPTOPHYCEAE				
Cryptomonads		56	0	2762
CYANOPHYCEAE				
Oscillatoriales (iauv 1-100)	P	0	110	217
Planktolyngbya		240	0	11837
Synechococcales small (iauv <20)		12200	0	601697
DINOPHYCEAE				
Gymnodiniales		11	0	543
Gymnodiniales (small)		23	0	1134
Peridiniales		3	0	148
OTHER PHYTOPLANKTON				
Prasinophytes		60	0	2959

TOTAL BGA	**613751**
TOTAL TOXIGENIC BGA	**0**
TOTAL POTENTIALLY TOXIC BGA	**217**
TOTAL ALGAE	**806593**

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis*** DATE: **13/07/2020**

Biologist **Biologist**

METHOD NO.: MB010

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Sedgewick-Rafter Vol.(ml)	1.0138	**Toxigenic (T) or Potentially toxic (P)**			**Total Cell Count (cells/mL)**
Concentration	1 : 1				
Magnification			- 200x	- 100x	
Fields		*	20	500	

+ 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: **13/07/2020**

Biologist **Biologist**

METHOD NO.: MB010