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

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6643331 20-35580
LOCALITY :	EM2012826_005
SITE :	Morella Creek @ Gauge
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.

Sedgewick-Rafter Vol.(ml)	1.0011	**Toxigenic (T) or Potentially toxic (P)**			**Total Cell Count (cells/mL)**
Concentration	1 : 1				
Magnification			- 200x	- 100x	
Fields		*	20	500	
BACILLARIOPHYCEAE					
Centrales			0	1	2
Chaetoceros			14	0	699
Navicula			36	0	1798
Pennales			1	0	50
CHLOROPHYCEAE					
Ankistrodesmus			52	0	2597
Chlamydomonads			2	0	100
Chlorococcoids			480	0	23974
Dictyosphaerium			8	0	400
Elakatothrix			2	0	100
Lagerheimia			1	0	50
Monoraphidium			240	0	11987
Oocystis			20	0	999
Selenastrum			760	0	37958
CHRYSOPHYCEAE					
Other Chrysophyceae			0	10	20
CRYPTOPHYCEAE					
Cryptomonads			2	0	100
CYANOPHYCEAE					
Oscillatoriales (iauv 1-100)		P	0	157	314
Planktolyngbya			162	0	8091
Synechococcales small (iauv <20)			3420	0	170812
DINOPHYCEAE					
Gymnodiniales			4	0	200
Gymnodiniales (small)			4	0	200

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

Biologist **Biologist**

METHOD NO.: MB010

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Concentration	1 : 1				
Magnification			- 200x	- 100x	
Fields		*****	20	500	
Peridiniales			2	0	100
OTHER PHYTOPLANKTON					
Prasinophytes			16	0	799

TOTAL BGA	**179217**
TOTAL TOXIGENIC BGA	**0**
TOTAL POTENTIALLY TOXIC BGA	**314**
TOTAL ALGAE	**261350**

+ 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