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

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6643327 20-35580
LOCALITY :	EM2012826_001
SITE :	Stony Well
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)	1.0018				
Concentration	1 : 1				
Magnification			- 200x	- 100x	
Fields		*	20	500	
BACILLARIOPHYCEAE					
Chaetoceros			0	14	28
Nitzschia			3	0	150
Pennales			2	0	100
Pennales (small <20um)			5	0	250
CHLOROPHYCEAE					
Chlamydomonads			540	0	26951
Chlorococcoids			2700	0	134757
Monoraphidium			330	0	16470
Oocystis			1	0	50
CHRYSOPHYCEAE					
Other Chrysophyceae			1	0	50
CRYPTOPHYCEAE					
Cryptomonads			12	0	599
CYANOPHYCEAE					
Limnothrix/Geitlerinema/Anagnostidinema		P	0	23	46
Planktolyngbya			42	0	2096
Pseudanabaena			6	0	299
Synechococcales small (iauv <20)			14040	0	700739
DINOPHYCEAE					
Gymnodiniales			2	0	100
Gymnodiniales (small)			7	0	349
Peridiniales			1	0	50
OTHER PHYTOPLANKTON					
Prasinophytes			14	0	699

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

Biologist **Biologist**

METHOD NO.: MB010

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

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6643327 20-35580
LOCALITY :	EM2012826_001
SITE :	Stony Well
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.

Sedgewick-Rafter Vol.(ml)	1.0018	**Toxigenic (T) or Potentially toxic (P)**			**Total Cell Count (cells/mL)**
Concentration	1 : 1				
Magnification			- 200x	- 100x	
Fields		*	20	500	

TOTAL BGA	**703180**
TOTAL TOXIGENIC BGA	**0**
TOTAL POTENTIALLY TOXIC BGA	**46**
TOTAL ALGAE	**883783**

+ 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