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

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6622178 20-32670
LOCALITY :	EM2011705_010
SITE :	Villa de Yumpa
SAMPLE :	Surface
DATE SAMPLED :	7/07/2020
DATE ANALYSED :	10/07/2020
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	**Toxigenic (T) or Potentially toxic (P)**			**Total Cell Count (cells/mL)**
Concentration	1 : 1				
Magnification			- 200x	- 100x	
Fields		*	20	500	
BACILLARIOPHYCEAE					
Amphora			0	1	2
Nitzschia			4	0	197
Pennales (small <20um)			4	0	197
CHLOROPHYCEAE					
Chlamydomonads			565	0	27865
Chlorococcoids			2340	0	115407
Monoraphidium			264	0	13020
CHRYSOPHYCEAE					
Other Chrysophyceae			1	0	49
CRYPTOPHYCEAE					
Cryptomonads			16	0	789
CYANOPHYCEAE					
Planktolyngbya			88	0	4340
Synechococcales small (iauv <20)			5260	0	259420
DINOPHYCEAE					
Gymnodiniales			1	0	49
Gymnodiniales (small)			17	0	838
Peridiniales			5	0	247
OTHER PHYTOPLANKTON					
Prasinophytes			6	0	296
			TOTAL BGA		**263760**
			TOTAL TOXIGENIC BGA		**0**
			TOTAL POTENTIALLY TOXIC BGA		**0**
			TOTAL ALGAE		**422716**

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

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: **13/07/2020**

Biologist **Biologist**

METHOD NO.: MB010