ALS Water

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

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6643345 20-35580
LOCALITY :	EM2012826_019
SITE :	Villa de Yumpa
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 with small BGA and greens present in excessive levels. Water quality is likely to be impaired.

Sedgewick-Rafter Vol.(ml)	1.0138				
Concentration	1 : 1				
Magnification		**Toxigenic (T) or Potentially toxic (P)**	- 200x	- 100x	**Total Cell Count (cells/mL)**
Fields		*	20	500	
BACILLARIOPHYCEAE					
Chaetoceros			5	0	247
Pennales			1	0	49
Pennales (small <20um)			7	0	345
CHLOROPHYCEAE					
Chlamydomonads			140	0	6905
Chlorococcoids			1660	0	81870
Monoraphidium			220	0	10850
Oocystis			3	0	148
Tetraedron			1	0	49
CRYPTOPHYCEAE					
Cryptomonads			35	0	1726
CYANOPHYCEAE					
Limnothrix/Geitlerinema/Anagnostidinema		P	0	26	51
Planktolyngbya			392	0	19333
Synechococcales small (iauv <20)			6600	0	325508
DINOPHYCEAE					
Gymnodiniales			1	0	49
Gymnodiniales (small)			3	0	148
Peridiniales			1	0	49
OTHER PHYTOPLANKTON					
Prasinophytes			25	0	1233

TOTAL BGA	**344892**
TOTAL TOXIGENIC BGA	**0**
TOTAL POTENTIALLY TOXIC BGA	**51**
TOTAL ALGAE	**448560**

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. :	6643345 20-35580
LOCALITY :	EM2012826_019
SITE :	Villa de Yumpa
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 with small BGA and greens present in excessive levels. Water quality is likely to be impaired.

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: **28/07/2020**

Biologist **Biologist**

METHOD NO.: MB010