

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6657137 20-37229
LOCALITY :	EM2013637_019
SITE :	Villa De Yumpa
SAMPLE :	Surface
DATE SAMPLED :	5/08/2020
DATE ANALYSED :	11/08/2020
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)	1.0291	Toxigenic (T) or Potentially toxic (P)	- 200x	- 100x	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um ³)	Total Biovolume (mm ³ /L)
Concentration	1 : 1	*	20	500			
Magnification							
Fields							

BACILLARIOPHYCEAE

<i>Amphora</i>		2	0	97	500	0.04859
<i>Centrales</i>		1	0	49	200	0.00972
<i>Nitzschia</i>		2	0	97	400	0.03887
<i>Pennales</i>		1	0	49	300	0.01458
<i>Pennales (small <20um)</i>		1	0	49	251	0.01220

CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>		260	0	12632	132	1.66748
<i>Chlamydomonads</i>		3	0	146	250	0.03644
<i>Chlorococcoids (<10um)</i>		3440	0	167136	60	10.02818

CRYPTOPHYCEAE

<i>Cryptomonads</i>		1	0	49	320	0.01555
---------------------	--	---	---	----	-----	---------

CYANOPHYCEAE

<i>Planktolyngbya</i>		31	0	1506	3.8	0.00572
<i>Synechococcales small (iauv <20)</i>		11760	0	571373	5.25	2.99971

DINOPHYCEAE

<i>Gymnodiniales</i>		5	0	243	2000	0.48586
<i>Gymnodiniales (small)</i>		5	0	243	500	0.12147
<i>Peridinales</i>		5	0	243	5000	1.21465

OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		380	0	18463	80	1.47702
<i>Prasinophytes</i>		17	0	826	100	0.08260

ANALYST: **Kirsten Mudie (signatory)**
Biologist

REVIEWED: **Adam Deliyannis**
Biologist

DATE: **11/08/2020**

METHOD NO.: MB010/MW024CV

Page 1 of 2

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6657137 20-37229
LOCALITY :	EM2013637_019
SITE :	Villa De Yumpa
SAMPLE :	Surface
DATE SAMPLED :	5/08/2020
DATE ANALYSED :	11/08/2020
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)	1.0291	Toxigenic (T) or Potentially toxic (P)	- 200x	- 100x	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um ³)	Total Biovolume (mm ³ /L)
Concentration	1 : 1	*	20	500			
Magnification							
Fields							

TOTAL BGA	572879	3.00543
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	773201	18.25861

+ The comments are discretionary and are for the purpose of helping to understand WQ implications. The comments are not accredited by NATA.

The biovolume values reported are those derived from documented information, including scientific literature. These are average values and not those measured on individual samples.

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)**
Biologist

REVIEWED: **Adam Deliyannis**
Biologist

DATE: **11/08/2020**

METHOD NO.: MB010/MW024CV

Page 2 of 2