

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6657121 20-37229
LOCALITY :	EM2013637_003
SITE :	Sth Policeman/Seagull Is
SAMPLE :	Surface
DATE SAMPLED :	5/08/2020
DATE ANALYSED :	10/08/2020
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)	1.0138	Toxigenic (T) or Potentially toxic (P)			Total Cell Count (cells/mL)	Individual Algal Unit Volume (um ³)	Total Biovolume (mm ³ /L)
Concentration	1 : 1	*	- 200x	- 100x			
Magnification			20	500			
Fields							
BACILLARIOPHYCEAE							
<i>Amphora</i>			2	0	99	500	0.04932
<i>Navicula</i>			0	1	2	1400	0.00276
<i>Nitzschia</i>			48	0	2367	400	0.94693
<i>Pennales</i>			1	0	49	300	0.01480
<i>Pennales (small <20um)</i>			7	0	345	251	0.08665
<i>Pleurosigma</i>			0	1	2	2000	0.00395
CHLOROPHYCEAE							
<i>Ankistrodesmoideae</i>			284	0	14007	132	1.84889
<i>Chlorococcoids (<10um)</i>			4640	0	228842	60	13.73052
CRYPTOPHYCEAE							
<i>Cryptomonads</i>			13	0	641	320	0.20517
CYANOPHYCEAE							
<i>Planktolyngbya</i>			45	0	2219	3.8	0.00843
<i>Pseudanabaena</i>			0	33	65	12.5	0.00081
<i>Synechococcales small (iauv <20)</i>			7680	0	378773	5.25	1.98856
DINOPHYCEAE							
<i>Gymnodiniales</i>			13	0	641	2000	1.28230
<i>Gymnodiniales (small)</i>			8	0	395	500	0.19728
<i>Peridinales</i>			3	0	148	5000	0.73979
OTHER PHYTOPLANKTON							
<i>Other small flagellates</i>			148	0	7299	80	0.58394
<i>Prasinophytes</i>			12	0	592	100	0.05918

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

REVIEWED: **Adam Deliyannis**
Biologist

DATE: **11/08/2020**

METHOD NO.: MB010/MW024CV

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Concentration	1 : 1	*	20	500			
Magnification							
Fields							

TOTAL BGA	381057	1.99781
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	636486	21.74928

+ 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.

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