

## ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6681718 20-40763
LOCALITY :	EM2014780_014
SITE :	Mark Point
SAMPLE :	Surface
DATE SAMPLED :	26/08/2020
DATE ANALYSED :	28/08/2020
SAMPLED BY :	Sample analysed as received

**COMMENTS:** + A diverse algal community was observed with current algal levels unlikely to impair water quality.

Sedgewick-Rafter Vol.(ml)	1.0311	Toxicogenic (T) or Potentially toxic (P)			Total Cell Count (cells/mL)	Individual Algal Unit Volume (um <sup>3</sup> )	Total Biovolume (mm <sup>3</sup> /L)
Concentration	1 : 1	*	- 200x	- 100x			
Magnification			20	500			
Fields							

### BACILLARIOPHYCEAE

Centrales		1	0	48	200	0.00970
Chaetoceros		25	0	1212	200	0.24246
Naviculales		0	1	2	1400	0.00272

### CHLOROPHYCEAE

Ankistrodesmus		0	2	4	132	0.00051
Chlamydomonads		40	0	1940	250	0.48492
Chlorococcoids (<10um)		80	0	3879	60	0.23276
Planctonema		0	18	35	800	0.02793
Selenastrum		2	0	97	250	0.02425

### CHRYSTOPHYCEAE

Other Chrysophyceae		4	0	194	350	0.06789
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### CRYPTOPHYCEAE

Cryptomonads		30	0	1455	320	0.46552
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### CYANOPHYCEAE

Planktolyngbya		0	14	27	3.8	0.00010
Synechococcales small (iauv <20)		532	0	25798	5.25	0.13544

### DINOPHYCEAE

Gymnodiniales		0	1	2	2000	0.00388
Gymnodiniales (small)		8	0	388	500	0.19397

### EUGLENOPHYCEAE

Eutreptia		0	2	4	1000	0.00388
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### OTHER PHYTOPLANKTON

Other small flagellates		60	0	2910	80	0.23276
Prasinophytes		6	0	291	100	0.02910

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

REVIEWED: **Adam Deliyiannis**  
Biologist

DATE: **08/10/2020**

METHOD NO.: MB010/MW024CV

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Sedgewick-Rafter Vol.(ml)	1.0311	Toxigenic (T) or Potentially toxic (P)	- 200x	- 100x	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um <sup>3</sup> )	Total Biovolume (mm <sup>3</sup> /L)
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TOTAL BGA	25825	0.13554
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	38286	2.15778

+ 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  $\beta$ -N-methylamino-L-alanine (BMAA) and its analogues. Therefore all cyanobacteria could be considered to pose a level of risk.

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