

## ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6643339 20-35580
LOCALITY :	EM2012826_013
SITE :	Mark Point
SAMPLE :	Surface
DATE SAMPLED :	22/07/2020
DATE ANALYSED :	27/07/2020
SAMPLED BY :	Sample analysed as received

**COMMENTS:** + A highly diverse algal community was observed. Current levels of BGA may mildly impact water quality.

Sedgewick-Rafter Vol.(ml)	1.0274	Toxigenic (T) or Potentially toxic (P)	- 200x	- 100x	Total Cell Count (cells/mL)
Concentration	1 : 1	*	20	500	
Magnification					
Fields					

### BACILLARIOPHYCEAE

Centrales	1	0	49
Chaetoceros	5	0	243
Nitzschia	1	0	49
Pennales	1	0	49

### CHLOROPHYCEAE

Ankistrodesmus	8	0	389
Chlamydomonads	40	0	1947
Chlorococcoids	54	0	2628
Closterium	0	3	6
Crucigenia	28	0	1363
Dictyosphaerium	16	0	779
Elakatothrix	1	0	49
Filamentous Green	67	0	3261
Hyaloraphidium	24	0	1168
Lagerheimia	3	0	146
Nephrocytium	1	0	49
Oocystis	30	0	1460
Scenedesmus	0	6	12
Selenastrum	6	0	292
Staurastrum	0	1	2

### CHRYSOPHYCEAE

Other Chrysophyceae	2	0	97
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### CRYPTOPHYCEAE

Cryptomonads	26	0	1265
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ANALYST: **Kirsten Mudie (signatory)**  
Biologist

REVIEWED: **Adam Deliyannis**  
Biologist

DATE: **28/07/2020**

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### CYANOPHYCEAE

<i>Aphanizomenonaceae family - straight</i>	P	0	25	49
<i>Leptolyngbya</i>		8	0	389
<i>Limnolyngbya (Planktolyngbya circumcreta)</i>		126	0	6132
<i>Planktolyngbya</i>		328	0	15963
<i>Pseudanabaena</i>		3	0	146
<i>Synechococcales small (iauv &lt;20)</i>		1092	0	53144

### EUGLENOPHYCEAE

<i>Eutreptia</i>		2	0	97
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TOTAL BGA	75823
TOTAL TOXIGENIC BGA	0
TOTAL POTENTIALLY TOXIC BGA	49
TOTAL ALGAE	91223

+ 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  $\beta$ -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

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Biologist

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METHOD NO.: MB010

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