

## ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6622187 20-32670
LOCALITY :	EM2011705_020
SITE :	Tilley Swamp Drain
SAMPLE :	Surface
DATE SAMPLED :	7/07/2020
DATE ANALYSED :	13/07/2020
SAMPLED BY :	Sample analysed as received

**COMMENTS: +** A highly diverse algal community was observed with small BGA most numerous. Water quality is unlikely to be impaired.

Sedgewick-Rafter Vol.(ml)	1.0268	Toxigenic (T) or Potentially toxic (P)	- 200x	- 100x	Total Cell Count (cells/mL)
Concentration	1 : 1	*	20	500	
Magnification					
Fields					

### BACILLARIOPHYCEAE

Centrales		3	0	146
Cymbella		0	2	4
Entomoneis		0	1	2
Navicula		3	0	146
Nitzschia		0	2	4
Pennales		1	0	49
Pennales (small <20um)		1	0	49

### CHLOROPHYCEAE

Chlamydomonads		12	0	584
Chlorococcoids		42	0	2045
Monoraphidium		4	0	195
Oocystis		4	0	195
Selenastrum		29	0	1412

### CHRYSTOPHYCEAE

Other Chrysophyceae		0	1	2
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### CRYPTOPHYCEAE

Cryptomonads		3	0	146
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### CYANOPHYCEAE

Leptolyngbya		0	410	799
Oscillatoriales (iauv 1-100)	P	0	10	19
Planktolyngbya		13	0	633
Pseudanabaena		7	0	341
Synechococcales small (iauv <20)		1028	0	50058

### DINOPHYCEAE

Gymnodiniales		0	1	2
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ANALYST: **Kirsten Mudie (signatory)**  
Biologist

REVIEWED: **Adam Deliyannis**  
Biologist

DATE: **13/07/2020**

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Gymnodiniales (small)		0	1	2
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### EUGLENOPHYCEAE

Eutreptia		0	1	2
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### OTHER PHYTOPLANKTON

Prasinophytes		1	0	49
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TOTAL BGA	51850
TOTAL TOXIGENIC BGA	0
TOTAL POTENTIALLY TOXIC BGA	19
TOTAL ALGAE	56884

+ 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

REVIEWED: **Adam Deliyannis**  
Biologist

DATE: **13/07/2020**

METHOD NO.: MB010

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