

## ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7056268 21-31436
LOCALITY :	EM2111820-006
SITE :	Morella Basin @Gauge
SAMPLE :	Surface
DATE SAMPLED :	21/06/2021
DATE ANALYSED :	24/06/2021
SAMPLED BY :	Sample analysed as received

**COMMENTS:** + A diverse community of algal taxa was observed. Current levels are unlikely to influence water quality.

Sedgewick-Rafter Vol.(ml)	1.0242	Toxigenic (T) or Potentially toxic (P)	- 200x	- 100x	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
Concentration	1 : 1	*	20	500			
Magnification							
Fields							

### BACILLARIOPHYCEAE

Centrales	2	0	98	200	0.01953
Naviculales	3	0	146	1400	0.20504
Nitzschia	60	0	2929	400	1.17165
Pennales	8	0	391	300	0.11716
Pennales (small <20um)	1	0	49	251	0.01225

### CHLOROPHYCEAE

Carteria	1	0	49	300	0.01465
Chlorococcoids (<10um)	39	0	1904	60	0.11424

### CRYPTOPHYCEAE

Cryptomonads	1	0	49	320	0.01562
--------------	---	---	----	-----	---------

### CYANOPHYCEAE

Synechococcales small (iauv <20)	51	0	2490	5.25	0.01307
----------------------------------	----	---	------	------	---------

### DINOPHYCEAE

Dinoflagellates	0	2	4	20000	0.07811
Gymnodiniales (small)	1	0	49	500	0.02441
Peridinales	1	0	49	5000	0.24409

### OTHER PHYTOPLANKTON

Other small flagellates	8	0	391	80	0.03124
Prasinophytes	107	0	5224	100	0.52236

TOTAL BGA	2490	0.01307
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	13822	2.58342

ANALYST: *Adam Deliyiannis*  
Biologist

REVIEWED: *Karen Simonsen (signatory)*  
Biologist

DATE: **25/06/2021**

## ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7056268 21-31436
LOCALITY :	EM2111820-006
SITE :	Morella Basin @Gauge
SAMPLE :	Surface
DATE SAMPLED :	21/06/2021
DATE ANALYSED :	24/06/2021
SAMPLED BY :	Sample analysed as received

**COMMENTS: +** A diverse community of algal taxa was observed. Current levels are unlikely to influence water quality.

Sedgewick-Rafter Vol.(ml)	1.0242	Toxigenic (T) or Potentially toxic (P)	- 200x	- 100x	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
Concentration	1 : 1	*	20	500			
Magnification							
Fields							

+ 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.

ANALYST: **Adam Deliyannis**  
Biologist

REVIEWED: **Karen Simonsen (signatory)**  
Biologist

DATE: **25/06/2021**

METHOD NO.: MB010/MW024VCA

Page 2 of 2