

## ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	6956314 21-18638
LOCALITY :	EM2106129-011
SITE :	Stony Well
SAMPLE :	Surface
DATE SAMPLED :	7/04/2021
DATE ANALYSED :	13/04/2021
SAMPLED BY :	Sample analysed as received

**COMMENTS:** + A diverse algal community was present in levels that may slightly impair water quality.

Sedgewick-Rafter Vol.(ml)	1.0169	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

<i>Naviculales</i>		1	0	49	1400	0.06884
<i>Nitzschia</i>		132	0	6490	400	2.59613
<i>Pennales</i>		2	0	98	300	0.02950
<i>Pennales (small &lt;20um)</i>		1	0	49	251	0.01234

### CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>		102	0	5015	132	0.66201
<i>Chlorococcoids</i>		1720	0	84571	500	42.28538

### CRYPTOPHYCEAE

<i>Cryptomonads</i>		9	0	443	320	0.14161
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### CYANOPHYCEAE

<i>Planktolyngbya</i>		5	0	246	3.8	0.00093
<i>Synechococcales small (iauv &lt;20)</i>		16420	0	807356	5.25	4.23862

### DINOPHYCEAE

<i>Dinoflagellates</i>		2	0	98	20000	1.96676
<i>Gymnodiniales (small)</i>		1	0	49	500	0.02458

### OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		32	0	1573	80	0.12587
<i>Prasinophytes</i>		3	0	148	100	0.01475

TOTAL BGA	807602	4.23955
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	906185	52.16732

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

REVIEWED: **Lauren Minett (signatory)**  
Biologist

DATE: **15/04/2021**

METHOD NO.: MB010/MW024VCA

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+ 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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