

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7281157 21-59669
LOCALITY :	EM2125413-016
SITE :	Stony Well
SAMPLE :	Surface
DATE SAMPLED :	14/12/2021
DATE ANALYSED :	20/12/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + Excessive levels of small BGA will impair water quality and may pose a health risk.

Sedgewick-Rafter Vol.(ml)	1.0046	Toxicogenic (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

Nitzschia		24	0	1195	400	0.47780
Pennales (small <20um)		1580	0	78638	251	19.73820
Pleurosigma		0	1	2	2000	0.00398

CHLOROPHYCEAE

Ankistrodesmoideae		1900	0	94565	132	12.48258
Chlorococcoids (<10um)		2780	0	138364	60	8.30181

CRYPTOPHYCEAE

Cryptomonads		5	0	249	320	0.07963
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CYANOPHYCEAE

Synechococcales small (iauv <20)		26600	0	1323910	5.25	6.95053
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DINOPHYCEAE

Gymnodiniales		33	0	1642	2000	3.28489
Gymnodiniales (small)		32	0	1593	500	0.79634

TOTAL BGA	1323910	6.95053
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	1640158	52.11577

+ 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 β -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 Deliyiannis (signatory)**
Biologist

DATE: **22/12/2021**

METHOD NO.: MB010/MW024VCA

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