

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	6781620 20-54272
LOCALITY :	EM2020558_011
SITE :	Stoney Well
SAMPLE :	Surface
DATE SAMPLED :	18/11/2020
DATE ANALYSED :	23/11/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed with low biovolume BGA dominating the sample. Water quality will be impaired.

Sedgewick-Rafter Vol.(ml)	1.0274	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

Centrales		4	0	195	200	0.03893
Nitzschia		11	0	535	400	0.21413
Pennales		1	0	49	300	0.01460
Pennales (small <20um)		110	0	5353	251	1.34368
Pleurosigma		0	13	25	2000	0.05061

CHLOROPHYCEAE

Ankistrodesmoideae		540	0	26280	132	3.46895
Chlorococcoids (<10um)		1920	0	93440	60	5.60639

CRYPTOPHYCEAE

Cryptomonads		3	0	146	320	0.04672
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CYANOPHYCEAE

Pseudanabaena		6	0	292	12.5	0.00365
Synechococcales small (iauv <20)		20840	0	1014211	5.25	5.32461

DINOPHYCEAE

Gymnodiniales		2	0	97	2000	0.19467
Gymnodiniales (small)		18	0	876	500	0.43800
Peridinales		0	2	4	5000	0.01947

OTHER PHYTOPLANKTON

Other small flagellates		70	0	3407	80	0.27253
Prasinophytes		1	0	49	100	0.00487

TOTAL BGA	1014503	5.32826
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	1144959	17.04180

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

REVIEWED: **Adam Deliyiannis**
Biologist

DATE: **23/11/2020**

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 β -N-methylamino-L-alanine (BMAA) and its analogues. Therefore all cyanobacteria could be considered to pose a level of risk.