

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	6750300 20-50047
LOCALITY :	EM2018692-009
SITE :	DS Tauwiche
SAMPLE :	Surface
DATE SAMPLED :	21/10/2020
DATE ANALYSED :	26/10/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A highly diverse community of algal taxa was observed. Current levels of algae may impair water quality.

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

<i>Amphora</i>		0	1	2	500	0.00100
<i>Pennales</i>		0	1	2	300	0.00060
<i>Pennales (small <20um)</i>		1	0	50	251	0.01249

CHLOROPHYCEAE

<i>Ankistrodesmus</i>		2	0	100	132	0.01314
<i>Chlorococcoids (<10um)</i>		40	0	1991	60	0.11945
<i>Closterium</i>		0	2	4	4130	0.01644
<i>Colonial green (cells)</i>		104	0	5176	100	0.51762
<i>Crucigenia</i>		196	0	9755	30	0.29265
<i>Elakatothrix</i>		1	0	50	45	0.00224
<i>Lagerheimia</i>		6	0	299	500	0.14931
<i>Oocystis</i>		79	0	3932	300	1.17957
<i>Pediastrum</i>		8	0	398	60	0.02389
<i>Planctonema</i>		620	0	30858	800	24.68644
<i>Scenedesmus</i>		12	0	597	250	0.14931
<i>Schroederia</i>		1	0	50	550	0.02737
<i>Staurastrum</i>		1	0	50	2000	0.09954
<i>Tetraedron</i>		1	0	50	150	0.00747

CRYPTOPHYCEAE

<i>Cryptomonads</i>		3	0	149	320	0.04778
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CYANOPHYCEAE

<i>Limnolyngbya (Planktolyngbya circumcreta)</i>		188	0	9357	4.9	0.04585
<i>Planktolyngbya</i>		67	0	3335	3.8	0.01267
<i>Pseudanabaena</i>		30	0	1493	12.5	0.01866
<i>Synechococcales small (iauv <20)</i>		5920	0	294645	5.25	1.54688

ANALYST: **Adam Deliyannis**
Biologist

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

DATE: **27/10/2020**

METHOD NO.: MB010/MW024CV

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OTHER PHYTOPLANKTON

Other small flagellates	4	0	199	80	0.01593
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TOTAL BGA	308830	1.62407
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	362542	28.98632

+ 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.